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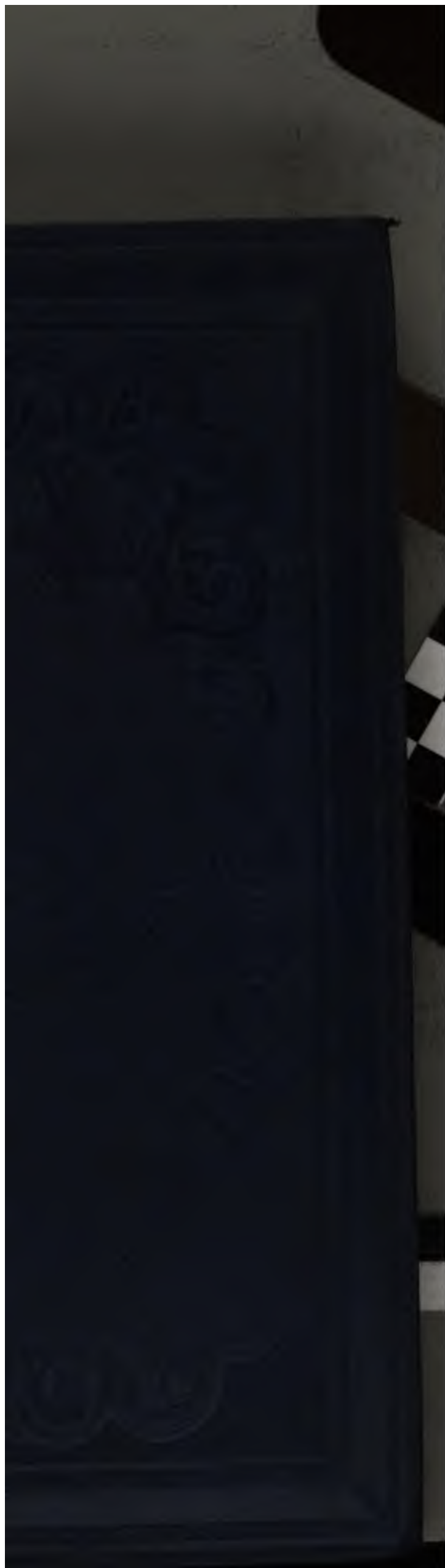
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**CHRONOLOGICAL INDEX,**

**FROM 1st OCT. TO 31st DEC. 1852.**

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[Second Edition.]

15 & 16 VICTORIÆ, Cap. 83. Sec. XXXII.



CHRONOLOGICAL INDEX  
OF  
PATENTS APPLIED FOR AND PATENTS  
GRANTED,

FROM 1ST OCTOBER 1852 TO 31ST DECEMBER 1853.

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Printed and Published by Order of the Commissioners of Patents,

UNDER THE

ACT of 15 & 16 VICTORIÆ, Cap. 83. Sec. XXXII.

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BY BENNET WOODCROFT,

SUPERINTENDENT OF SPECIFICATIONS, INDEXES, &c.

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1860.



Note.—*The following Index is thus arranged :*

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| From 1st January to 31st December 1853 | - | - | 73 to 260 |

## CHRONOLOGICAL INDEX

OF

### PATENTS APPLIED FOR AND PATENTS GRANTED.

*From 1st October to 31st December 1852.*

|                                 |                                                                                                                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ADAMS.<br>1st October 1852.     | 1. ROBERT ADAMS, of King William Street, in the City of London, for an invention for—"Improvements in ball-cartridges." <i>Letters Patent sealed.</i>                                                                                                                                                           |
| BROCKBANK.<br>1st October 1852. | 2. GEORGE HENRY BROCKBANK, of Crawley Street, Oakley Square, in the County of Middlesex, Pianoforte Manufacturer, for an invention for—"Improvements in upright pianofortes." <i>Letters Patent sealed.</i>                                                                                                     |
| SPENCE.<br>1st October 1852.    | 3. PETER SPENCE, of Pendleton Alum Works, Manchester, in the County of Lancaster, for an invention for—"Improvements in obtaining power by steam." <i>Letters Patent sealed.</i>                                                                                                                                |
| HODGSON.<br>1st October 1852.   | 4. JAMES HODGSON, of Liverpool, in the County of Lancaster, Engineer and Iron Ship Builder, for an invention for—"Improvements in constructing iron ships and vessels." <i>Letters Patent sealed.</i>                                                                                                           |
| SMITH.<br>1st October 1852.     | 5. JOSHUA SMITH, of Sheffield, in the County of York, Merchant, carrying on business along with my partner in trade, William Thorne, under the firm of Thomas Turner and Comp <sup>y</sup> , as Merchants and Manufacturers, for an invention for—"Improvements in table-knives." <i>Letters Patent sealed.</i> |
| POOLE.<br>1st October 1852.     | 6. MOSES POOLE, of Serle Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of guns and pistols."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                      |
| GARDNER.<br>1st October 1852.   | 7. JOHN HENRY GARDNER, of Poppin's Court, in the City of London, for an invention for—"Improvements in toilet-tables." <i>Letters Patent sealed.</i>                                                                                                                                                            |
| WRIGHT.<br>1st October 1852.    | 8. RICHARD WRIGHT, of Greenwich, in the County of Kent, Gentleman, for an invention for—"Improvements in constructing vessels." <i>Letters Patent sealed.</i>                                                                                                                                                   |
| GREEN.<br>1st October 1852.     | 9. GEORGE GREEN, of the Mile-end Road, in the County of Middlesex, for an invention for—"Improvements in the manufacture of casks." <i>Letters Patent sealed.</i>                                                                                                                                               |
| ROE.<br>1st October 1852.       | 10. FREEMAN ROE, of the Strand, in the County of Middlesex, Hydraulic Engineer, for an invention for—"Improvements in valves and cocks." <i>Letters Patent sealed.</i>                                                                                                                                          |
| GRAY.<br>1st October 1852.      | 11. THOMAS WOOD GRAY, of Warkworth Terrace, Commercial Road, Limehouse, in the County of Middlesex, for an invention for—"Improvements in cocks and valves." <i>Letters Patent sealed.</i>                                                                                                                      |
| GRAY.<br>1st October 1852.      | 12. THOMAS WOOD GRAY, of Warkworth Terrace, Commercial Road, Limehouse, in the County of Middlesex, for an invention for—"Improvements in steam-engines." <i>Letters Patent sealed.</i>                                                                                                                         |
| HAYWARD.<br>1st October 1852.   | 13. EDWARD LAMBERT HAYWARD, of the Blackfriars Road, in the County of Surrey, for an invention for—"Improvements in lock-spindles." <i>Letters Patent sealed.</i>                                                                                                                                               |
| CHRISTY.<br>1st October 1852.   | 14. THOMAS CHRISTY, jun <sup>r</sup> , of Gracechurch Street, in the City of London, for an invention for—"Improvements in weaving hat-plush and other piled fabric."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                    |
| BARKER.<br>1st October 1852.    | 15. JOSEPH BARKER, of Kennington Lane, in the County of Surrey, for an invention for—"Improvements in fastenings." <i>Letters Patent sealed.</i>                                                                                                                                                                |
| POOLE.<br>1st October 1852.     | 16. MOSES POOLE, of Serle Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of telescope and other tubes."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                            |

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|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NEWTON.<br>FULLER.<br>1st October 1852. | 17. CHARLES HENRY NEWTON, of 192, Camden Road Villas, in the County of Middlesex, and GEORGE LEEDHAM FULLER, of Peckham, in the County of Surrey, for an invention for—"Improvements in protecting electric telegraph wires."<br><i>Letters Patent sealed.</i>                                                                                                    |
| ROTCH.<br>1st October 1852.             | 18. THOMAS DICKASON ROTCH, of Furnival's Inn, in the County of Middlesex, Gentleman, for an invention for—"Improvements in treating peat, and in manufacturing fuel and other products therefrom."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                         |
| POOLE.<br>1st October 1852.             | 19. MOSES POOLE, of Serle Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in moulding articles when india-rubber combined with other materials are employed."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                            |
| BIELEFELD.<br>1st October 1852.         | 20. CHARLES FREDERICK BIELEFELD, of the Strand, in the County of Middlesex, for an invention for—"Improvements in constructing portable houses and buildings." <i>Letters Patent sealed.</i>                                                                                                                                                                      |
| DUNCAN.<br>HUTTON.<br>1st October 1852. | 21. GEORGE DUNCAN and ARTHUR HUTTON, of Chelsea, in the County of Middlesex, for an invention for—"Improvements in the manufacture of casks." <i>Letters Patent sealed.</i>                                                                                                                                                                                       |
| WOOD.<br>1st October 1852.              | 22. HENRY WALKER WOOD, of Briton Ferry, near Neath, in the County of Glamorgan, for an invention for—"Improvements in the construction of ships and other vessels." <i>Letters Patent sealed; no specification filed.</i>                                                                                                                                         |
| LAVANCHY.<br>1st October 1852.          | 23. JEAN BAPTISTE LAVANCHY, of Richmond Buildings, Soho, in the County of Middlesex, Musical Instrument Maker, for an invention for—"Improvements in wind musical instruments where metal tongues are employed." <i>Letters Patent sealed.</i>                                                                                                                    |
| POOLE.<br>1st October 1852.             | 24. MOSES POOLE, of Serle Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the making covers for and in binding books and portfolios, and in making frames for pictures and glasses."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                  |
| MACINTOSH.<br>1st October 1852.         | 25. JOHN MACINTOSH, of Berners Street, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in regulating and governing the flow of fluids." <i>Provisional protection only.</i>                                                                                                                                                        |
| MACINTOSH.<br>1st October 1852.         | 26. JOHN MACINTOSH, of Berners Street, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in evaporation." <i>Letters Patent sealed.</i>                                                                                                                                                                                              |
| MACINTOSH.<br>1st October 1852.         | 27. JOHN MACINTOSH, of Berners Street, in the County of Middlesex, for an invention for—"Improvements in packing for steam-engines and other machinery." <i>Provisional protection only.</i>                                                                                                                                                                      |
| POOLE.<br>1st October 1852.             | 28. MOSES POOLE, of Serle Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in coating metal and other substances with a material not hitherto used for such purposes."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                    |
| EBINGRÉ.<br>1st October 1852.           | 29. JOHN DANIEL EBINGRÉ, of Brussels, for an invention for—"Improvements in the manufacture of animal charcoal." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                    |
| POOLE.<br>1st October 1852.             | 30. MOSES POOLE, of Serle Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of trunks, cartouch and other boxes, knapsacks, pistol-holsters, dressing, writing, and other cases, and sword and other sheaths."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                          |
| LEE.<br>1st October 1852.               | 31. JOHN DUNKIN LEE, of Leadenhall Street, in the City of London, for an invention for—"Improvements in covering railway-trucks and other vehicles." <i>Letters Patent sealed.</i>                                                                                                                                                                                |
| FLYNN.<br>1st October 1852.             | 32. WILLIAM PYM FLYNN, of 18, Rutland Place, in the County of Cork, for an invention for—"Improvements in paddle-wheels." <i>Letters Patent sealed.</i>                                                                                                                                                                                                           |
| POOLE.<br>1st October 1852.             | 33. MOSES POOLE, of Serle Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of pails, tubs, baths, buckets, measures, drinking and other vessels, basins, pitchers, and jugs, by the application of a material not hitherto used in such manufactures."— <i>A communication.</i> <i>Letters Patent sealed.</i> |



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|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BEART.<br>1st October 1852.               | 34. ROBERT BEART, of Godmanchester, in the County of Huntingdon, for an invention for—"Improvements in the manufacture of bricks and other articles thro' moulding orifices."<br><i>Letters Patent sealed.</i>                                                                                                                                |
| HUCKVALE.<br>1st October 1852.            | 35. THOMAS HUCKVALE, of Choicehill, near Chipping Norton, in the County of Oxon, Farmer, for an invention for—"Improvements in instruments for administering medicine to horses and other animals."<br><i>Letters Patent sealed.</i>                                                                                                          |
| HARE.<br>1st October 1852.                | 36. JAMES HARE, of Birmingham, in the County of Warwick, for an invention for—"Improvements in expanding tables, and in music stools."<br><i>Letters Patent sealed.</i>                                                                                                                                                                       |
| POOLE.<br>1st October 1852.               | 37. MOSES POOLE, of Serle Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in covering and sheathing surfaces with a material not hitherto used for such purposes."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                |
| COCHRANE.<br>1st October 1852.            | 38. The Honourable WILLIAM ERSKINE COCHRANE, of Albany Street, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in unloading coals from ships or vessels."<br><i>Letters Patent sealed.</i>                                                                                                                      |
| ABATE.<br>CLERVILLE.<br>1st October 1852. | 39. FELIX ABATE, of 21, George Street, Hampstead Road, and JOHN JULIUS CLÉRO DE CLERVILLE, of Newman Street, Oxford Street, both in the County of Middlesex, for an invention for—"Improvements in preparing, ornamenting, and printing on surfaces of metal and other substances."<br><i>Letters Patent sealed.</i>                          |
| HOLL.<br>1st October 1852.                | 40. FREDERICK RICHARD HOLL, of Weymouth Terrace, City Road, in the County of Middlesex, Watchmaker, for an invention for—"Improvements in watches and chronometers."<br><i>Letters Patent sealed.</i>                                                                                                                                         |
| BARRANS.<br>1st October 1852.             | 41. JOSEPH BARRANS, of Queen's Road, Peckham, in the County of Surrey, for an invention for—"Improvements in steam-engine boilers."<br><i>Letters Patent sealed.</i>                                                                                                                                                                          |
| HEDLEY.<br>1st October 1852.              | 42. OSWALD DODD HEDLEY, of Newcastle-upon-Tyne, Gentlemen, for an invention for—"Improvements in getting coal and other minerals."<br><i>Letters Patent sealed.</i>                                                                                                                                                                           |
| POOLE.<br>1st October 1852.               | 43. MOSES POOLE, of Serle Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in harness, and in horse and carriage furniture."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                       |
| HODGSON.<br>1st October 1852.             | 44. JAMES HODGSON, of Liverpool, in the County of Lancaster, Engineer and Iron Ship Builder, for an invention for—"Improvements in machinery for draining land."<br><i>Letters Patent sealed.</i>                                                                                                                                             |
| RICKARDS.<br>1st October 1852.            | 45. CHARLES WILLIAM ROWLEY RICKARDS, of 28, New Cut, Blackfriars Road, in the County of Surry, for an invention for—"Improvements in tongs for screwing pipes and tubes."<br><i>Letters Patent sealed.</i>                                                                                                                                    |
| STEWART.<br>1st October 1852.             | 46. JAMES STEWART, of Old St. Pancras Road, in the County of Middlesex, for an invention for—"Improvements in the action of pianofortes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                    |
| PERRY.<br>1st October 1852.               | 47. STEPHEN PERRY, of Red Lion Square, in the County of Middlesex, for an invention for—"Improvements in inkstands or inkholders."<br><i>Letters Patent sealed.</i>                                                                                                                                                                           |
| MOREWOOD.<br>ROGERS.<br>1st October 1852. | 48. EDMUND MOREWOOD and GEORGE ROGERS, both of Enfield, in the County of Middlesex, for an invention for—"Improvements in rolling metal."<br><i>Letters Patent sealed.</i>                                                                                                                                                                    |
| MOREWOOD.<br>ROGERS.<br>1st October 1852. | 49. EDMUND MOREWOOD and GEORGE ROGERS, both of Enfield, in the County of Middlesex, for an invention for—"Improvements in coating metals."<br><i>Letters Patent sealed.</i>                                                                                                                                                                   |
| TUCKER.<br>1st October 1852.              | 50. WALTER HENRY TUCKER, of Fore Street, Tiverton, in the County of Devon, Watchmaker, for an invention for—"Certain improvements in locks (applicable to locks for all purposes), by which they can be made so as to combine increased and perfect security with simplicity and cheapness of construction."<br><i>Letters Patent sealed.</i> |
| CRADDOCK.<br>1st October 1852.            | 51. THOMAS CRADDOCK, of the Ranelagh Works, Thames Bank, in the County of Middlesex, Engineer, for an invention for—"Certain improvements in the steam-engine and the steam-boiler."<br><i>Letters Patent sealed.</i>                                                                                                                         |
| M'LELLAN.<br>1st October 1852.            | 52. WALTER M'LELLAN, of Glasgow, in the County of Lanark, North Britain, Iron Merchant, for an invention for—"Improvements in the manufacture of rivets, and in working in metals."<br><i>Letters Patent sealed.</i>                                                                                                                          |

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|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DALZIEL.</b><br>1st October 1852.                    | <b>53. THOMAS BROWNE DALZIEL</b> , of Glasgow, in the County of Lanark, North Britain, Manager, for an invention for—"Improvements in the treatment or manufacture of textile fabrics or materials."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                      |
| <b>RENSHAW.</b><br>1st October 1852.                    | <b>54. GEORGE PEARSON RENSCHAW</b> , of the Park, Nottingham, in the County of Nottingham, Civil Engineer, for an invention for—"Improvements in turntables and traverse tables, and in apparatus connected therewith."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                             |
| <b>MUMBY.</b><br>1st October 1852.                      | <b>55. GEORGE MUMBY</b> , of Harrington Street, Hampstead Road, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the manufacture of envelopes, and the machinery, apparatus, or means to be employed therein."<br><i>Provisional protection only.</i>                                                                                                                                                                                                             |
| <b>FINLAY.</b><br>1st October 1852.                     | <b>56. JOHN FINLAY</b> , of Glasgow, in the County of Lanark, North Britain, Ironmonger, for an invention for—"Improvements in grates and fireplaces, or apparatus for the generation of heat."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                           |
| <b>MACDONNELL.</b><br>1st October 1852.                 | <b>57. JOHN JOSEPH MACDONNELL</b> , of the Temple Mead, in the City of Bristol, Civil Engineer, for an invention for—"Certain improvements in the construction of railways."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                              |
| <b>SLEIGH.</b><br>1st October 1852.                     | <b>58. WILLIAM WILLCOCKS SLEIGH</b> , of No. 1, Queen's Square, Bloomsbury, in the County of Middlesex, Doctor of Medicine and Surgeon, for an invention for—"Producing motive-power, which he entitles, 'The counteracting reaction motive-power engine.'"<br><i>Provisional protection only.</i>                                                                                                                                                                                                         |
| <b>DAVIS.</b><br>1st October 1852.                      | <b>59. MARCUS DAVIS</b> , of 5, Lyon's Inn, Strand, in the City of Westminster, for an invention for—"Certain improvements in the manufacture of carriages, carts, military and other waggons, and wheels for locomotive and other purposes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                             |
| <b>BONNEY.</b><br><b>ARCHBUTT.</b><br>1st October 1852. | <b>60. WILLIAM WOLFE BONNEY and ROBERT ARCHBUTT</b> , of Hortulan Place, Chelsea, in the County of Middlesex, Engineers, for an invention for—"Improvements in machinery for raising a pile on linen, cotton, silk, or other fabrics."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                              |
| <b>BAYLIS.</b><br>1st October 1852.                     | <b>61. JOHN BAYLIS</b> , of 15, Owen's Row, in the County of Middlesex, Crape Manufacturer, for an invention for—"Improvements in hatbands and armlets."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                            |
| <b>SAYERS.</b><br>1st October 1852.                     | <b>62. JOHN SAYERS</b> , of No. 6, Prospect Place, Poplar, in the County of Middlesex, Carpenter and Ship Joiner, for an invention—"Of improved arrangements for maintaining a level surface or level surfaces upon or in connection with bodies subject to a rocking motion."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                            |
| <b>STANFORD.</b><br>1st October 1852.                   | <b>63. JOHN FORDHAM STANFORD</b> , of Stangate Street, Dover, in the County of Kent, Architect and Civil Engineer, for an invention for—"Improved machinery and apparatus for manufacturing bricks, tiles, and similar building materials, which is hereby denominated the complete brick maker."<br><i>Letters Patent sealed.</i>                                                                                                                                                                         |
| <b>FANSHAW.</b><br>1st October 1852.                    | <b>64. HENRY RICHARDSON FANSHAW</b> , of Arthur Street, Old Kent Road, in the County of Surrey, Chemist and Manufacturing Agent, for an invention for—"Certain improvements in shawls, scarfs, neckerchiefs, handkerchiefs, mantles, sails, or sailcloth, table-cloths and table-covers, napkins, and umbrella and parasol tops and covers, and in an improved loom for weaving, applicable especially to the said improvements in respect to some of the said articles."<br><i>Letters Patent sealed.</i> |
| <b>STOCKEN.</b><br>1st October 1852.                    | <b>65. JAMES STOCKEN</b> , of Baldock, in the County of Hertford, Pharmaceutical Chemist, for an invention for—"An improved plaster spatula."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                       |
| <b>HOLMES.</b><br>1st October 1852.                     | <b>66. GEORGE HOLMES</b> , of No. 31, Great Queen Street, Lincoln's Inn Fields, in the County of Middlesex, for an invention for—"Certain improvements in the manufacture or construction of coats, capes, and other upper garments of personal attire."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                  |
| <b>BROWN.</b><br>1st October 1852.                      | <b>67. JAMES BROWN</b> , of No. 2, Bridge Terrace, Canal Road, Mile End, in the County of Middlesex, Machinist, for an invention for—"Improved method of making ships' or other vessels' anchors."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                  |



|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ELLINS.<br>1st October 1852.           | 68. GEORGE ELLINS, of the Borough of Droitwich, in the County of Worcester, for an invention for—"An improved method and apparatus for preparing flax straw for dressing and cleaning."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                     |
| MOORE.<br>HARRIS.<br>1st October 1852. | 69. WILLIAM MOORE, of Birmingham, in the County of Warwick, Gunmaker, and WILLIAM HARRIS, of Birmingham aforesaid, for an invention for—"An Improvement in repeating pistols and rifles."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                   |
| LAKIN.<br>RHODES.<br>1st October 1852. | 70. ROBERT LAKIN, of Ardwick, in the County of Lancaster, Machinist, and WILLIAM HENRY RHODES, of Gorton, in the said County of Lancaster, Mechanic, for an invention for—"Improvements in machines for spinning and doubling cotton and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                                                                         |
| COFFEY.<br>1st October 1852.           | 71. JOHN AMBROSE COFFEY, of Providence Row, Finsbury, in the County of Middlesex, Pharmaceutical Engineer, for an invention for—"Improvements in apparatus for performing various chemical and pharmaceutical operations, hereby denominated 'Coffey's Improved Patent Esculapian Apparatus,' parts whereof are applicable to steam boilers, steam and liquid gauges, stills, and syphons."<br><i>Letters Patent sealed.</i> |
| WILKINS.<br>1st October 1852.          | 72. EDWARD WILKINS, of No. 60, Queen's Row, Walworth, in the County of Surrey, Gentleman, for an invention for—"Improvements in the distribution and application of water or other liquid manure to promote vegetation."<br><i>Letters Patent sealed.</i>                                                                                                                                                                    |
| WILKINS.<br>1st October 1852.          | 73. EDWARD WILKINS, of No. 60, Queen's Row, Walworth, in the County of Surrey, Gentleman, for an invention for—"Improvements in ruling and folding the leaves of account books, or other books used for mercantile purposes, and in making entries therein and delivering vouchers therefrom with accuracy and dispatch."<br><i>Letters Patent sealed.</i>                                                                   |
| KINGSFORD.<br>1st October 1852.        | 74. CHRISTOPHER KINGSFORD, of No. 18, Buckingham Street, Adelphi, in the County of Middlesex, Engineer, for an invention for—"Machinery for solidifying peat, coal, and other substances of a like nature."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                 |
| EILER.<br>1st October 1852.            | 75. LAURENTIUS MATHIAS EILER, of the Kingdom of Denmark, now residing at Leadenhall Street, in the City of London, Land Surveyor, for an invention for—"An apparatus to release or separate carriages on railroads in case of accident, giving at the same time a signal of distress."<br><i>Letters Patent sealed.</i>                                                                                                      |
| SCHOFIELD.<br>1st October 1852.        | 76. CHRISTOPHER JAMES SCHOFIELD, of Cornbrook Hulme, in the County of Lancaster, Gentleman, for an invention for—"Improvements in machinery or apparatus for cutting the pile of fustians and other fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                               |
| SOULBY.<br>1st October 1852.           | 77. STEPHEN SOULBY, of Ulverston, in the County of Lancaster, Printer, for an invention for—"Improvements in machinery for letterpress printing."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                           |
| SMITH.<br>1st October 1852.            | 78. WILLIAM SMITH, of Kettering, in the County of Northampton, Agricultural Implement Maker, for an invention for—"Improvements in machinery or apparatus for cleaning currants, raisins, and other fruits or vegetable substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                        |
| SMITH.<br>1st October 1852.            | 79. HENRY SMITH, of Stamford, in the County of Lincoln, Agricultural Implement Maker, for an invention for—"Improvements in reaping machines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                              |
| WALKER.<br>1st October 1852.           | 80. MATTHIAS WALKER, of Horsham, in the County of Sussex, Ironmonger, for an invention for—"An improved ash-pan or apparatus for taking up ashes and cinders, and separating or sifting them."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                              |
| OSBOURN.<br>1st October 1852.          | 81. FREDERICK OSBOURN, of Albion Street, King's Cross, in the County of Middlesex, Tailor, for an invention for—"A machine or apparatus for facilitating the manufacture of various kinds of garments or wearing apparel."<br><i>Letters Patent sealed.</i>                                                                                                                                                                  |
| OMMANNEY.<br>1st October 1852.         | 82. HENRY MORTLOCK OMMANNEY, of the City of Chester, Esquire, for an invention for—"Improvements in certain parts of machinery for spinning cotton and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                           |
| OMMANNEY.<br>1st October 1852.         | 83. HENRY MORTLOCK OMMANNEY, of the City of Chester, Esquire, for an invention for—"An improved furnace for melting of metals in crucibles."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                |

**PETTITT.**  
1st October 1852.

**BRANDEIS.**  
1st October 1852.

**KYLE.**  
1st October 1852.

**MENZIES.**  
1st October 1852.

**HOLCROFT.**  
1st October 1852.

**MARSHALL.**  
1st October 1852.

**ASPINALL.**  
1st October 1852.

**WALKER.**  
1st October 1852.

**LAWES.**  
1st October 1852.

**LAWES.**  
1st October 1852.

**LAWES.**  
1st October 1852.

**OXLEY.**  
1st October 1852.

**BRIDSON.**  
1st October 1852.

**DUNLOP.**  
1st October 1852.

**FIRTH.**  
1st October 1852.

**RÜST.**  
1st October 1852.

**POTTS.**  
1st October 1852.

**ALLAN.**  
1st October 1852.

**RENNIE.**  
1st October 1852.

84. EDWIN PETTITT, of Kingland, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of ammoniacal salts and manures."  
*Letters Patent sealed.*

85. JOSEPH BRANDEIS, of No. 92, Great Tower Street, in the City of London, Sugar Refiner, for an invention for—"Improvements in the manufacture of sugar and machine solutions."  
*Letters Patent sealed.*

86. DAVID DUNNE KYLE, of No. 120, Albany Street, Regent's Park, in the County of Middlesex, for an invention for—"An improved method of excavating and removing earth."  
*Letters Patent sealed.*

87. ROBERT ROBERTSON MENZIES, of Glasgow, in the County of Lanark, North Britain, Warehousemen, for an invention for—"Improvements in the manufacture of carpets and other fabrics."  
*Letters Patent sealed.*

88. GEORGE HOLCROFT, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in steam engines."  
*Letters Patents sealed.*

89. JAMES NICHOLS MARSHALL, of Bideford, in the County of Devon, Bacon-factor, for an invention for—"An improved wheel for carriages and other vehicles."  
*Letters Patent sealed.*

90. JOHN ASPINALL, of King William Street, in the City of London, Engineer, for an invention for—"Improvements in evaporating cane-juice and other liquids, and in apparatus for that purpose."  
*Letters Patent sealed.*

91. WILLIAM WALKER, of Liverpool, in the County of Lancaster, Patent Agent, for an invention for—"Improvements in wheels for railway carriages, and in the mode or modes of manufacturing the same."—*A communication.* *Letters Patents sealed.*

92. THOMAS LAWES, of 32, City Road, London, in the County of Middlesex, for an invention for—"Improvements in the manufacture of agricultural implements, or an improved agricultural implement."  
*Letters Patent sealed.*

93. THOMAS LAWES, of 32, City Road, St. Luke's, County of Middlesex, for an invention for—"An improved quilt or coverlid."  
*Letters Patent sealed.*

94. THOMAS LAWES, of 32, City Road, St. Luke's, County of Middlesex, for an invention for—"Improvements in generating steam."  
*Letters Patent sealed.*

95. WILLIAM OXLEY, of Manchester, in the County of Lancaster, Merchant and Mill Furnishing Manufacturer, for an invention for—"Improvements in apparatus for heating and drying."  
*Letters Patent sealed.*

96. HENRY BRIDSON, of Bolton-le-Moors, in the County of Lancaster, Bleacher, for an invention for—"Improvements in machinery to facilitate the rinsing, washing, and cleansing of fabrics, which machinery is also applicable to certain operations in bleaching and dyeing."  
*Letters Patent sealed.*

97. JOHN MACMILLAN DUNLOP, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in the manufacture of wheels for carriages."  
*Letters Patent sealed.*

98. THOMAS FIRTH, of Shear Bridge Mill, in the Township of Horton and Parish of Bradford, in the County of York, Worsted Spinner, for an invention for—"Improvements in machinery for preparing to be spun, wool, mohair, flax, cotton, and other fibrous materials."  
*Provisional protection only.*

99. ROBERT ANDERSON RÜST, of 320, Regent Street, in the County of Middlesex, Pianoforte Manufacturer, for an invention for—"Improvements in pianofortes."  
*Provisional protection only.*

100. WILLIAM POTTS, of Birmingham, in the County of Warwick, for an invention for—"Improvements in sepulchral monuments."  
*Letters Patent sealed.*

101. THOMAS ALLAN of Adam Street, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in the application of carbonic acid gas to motive purposes."  
*Letters Patent sealed.*

102. GEORGE RENNIE, of Holland Street, Blackfriars, in the County of Surrey, Esquire, for an invention for—"An improved chain cable."  
*Provisional protection only.*



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| LUNGLEY.<br>1st October 1852.               | 103. CHARLES LUNGLEY, of Poplar, in the County of Middlesex, Ship Builder, for an invention for—"Improvements in ship building." <i>Letters Patent sealed.</i>                                                                                                                                                                                              |
| ROBERTS.<br>1st October 1852.               | 104. MARTYN JOHN ROBERTS, of Gerrard's Cross, in the County of Bucks, Esquire, for an invention for—"Improvements in the manufacture of oxides of zinc and tin." <i>Letters Patent sealed.</i>                                                                                                                                                              |
| BROOMAN.<br>1st October 1852.               | 105. RICHARD ARCHIBALD BROOMAN, of the firm of J. C. Robertson & Company, of Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in machines for cleaning knives." <i>Provisional protection only.</i>                                                                                                                   |
| ALLAN.<br>1st October 1852.                 | 106. THOMAS ALLAN, of Adam Street, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in propelling." <i>Letters Patent sealed.</i>                                                                                                                                                                                             |
| HURRY.<br>1st October 1852.                 | 107. HENRY COLUMBUS HURRY, of Adam Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"An improved construction of fountain pen or reservoir penholder." <i>Letters Patent sealed.</i>                                                                                                                                       |
| FEARN.<br>1st October 1852.                 | 108. THOMAS FEARN, of Birmingham, in the County of Warwick, Electro-Metallurgist, for an invention for—"Certain improvements in ornamenting metallic surfaces, and in machinery and apparatus to be employed therein." <i>Letters Patent sealed.</i>                                                                                                        |
| AUSTIN.<br>SUTHERLAND.<br>1st October 1852. | 109. WILLIAM AUSTIN, of Birmingham, in the County of Warwick, Engraver, and WILLIAM SUTHERLAND, of the same place, Decorative Painter, for an invention for—"Improvements in ornamenting glass." <i>Letters Patent sealed.</i>                                                                                                                              |
| WRIGHT.<br>STURGE.<br>1st October 1852.     | 110. JOHN WRIGHT and EDWIN STURGE, of the Cornwall Road, Lambeth, in the County of Surrey, Engineers, for an invention for—"Improved machinery for the manufacture of envelopes." <i>Letters Patent sealed.</i>                                                                                                                                             |
| REMINGTON.<br>BERRY.<br>1st October 1852.   | 111. JOHN REMINGTON, of Sloane Street, Chelsea, Civil Engineer, and ZEPHANIAH DEACON BERRY, of Victoria Road, Pimlico, Gas Fitter and Engineer, both in the County of Middlesex, for an invention for—"Improvements in gas meters, or apparatus for measuring gas or other elastic fluids." <i>Letters Patent sealed.</i>                                   |
| TURCK.<br>1st October 1852.                 | 112. HERMANN TURCK, of Broad Street Buildings, in the City of London, Merchant, for an invention for—"Improvements in packing goods." <i>Letters Patent sealed.</i>                                                                                                                                                                                         |
| HARCZYK.<br>1st October 1852.               | 113. BERNARD HARCZYK, of St. Mark Street, Tenter Ground, Goodman's Fields, in the County of Middlesex, Gentleman, for an invention for—"An improved preparation or composition of coloring matter to be used in washing or bleaching linen and other washable fabrics, and in the manufacture of paper and other substances." <i>Letters Patent sealed.</i> |
| JENKINS.<br>1st October 1852.               | 114. GEORGE JENKINS, of Nassau Street, Soho, in the County of Middlesex, Gentleman, for an invention for—"Improved means of obtaining motive-power through an atmospheric engine, by facilitating the attainment of exhaustion by currents of caloric, the engine being worked by the pressure of the atmosphere." <i>Provisional protection only.</i>      |
| CARR.<br>1st October 1852.                  | 115. CHARLES JOHN CARR, of Belper, in the County of Derby, Engineer, for an invention for—"Improvements in machinery for making bricks and other similar articles." <i>Letters Patent sealed.</i>                                                                                                                                                           |
| DAVIS.<br>1st October 1852.                 | 116. WILLIAM BOLIVAR DAVIS, of Southampton, Dealer and Chapman, for an invention for—"Improvements in ships' buoys, life-buoys, ships' fenders, and other similar articles." <i>Letters Patent sealed.</i>                                                                                                                                                  |
| FELL.<br>1st October 1852.                  | 117. JOHN WILSON FELL, of Glasgow, in the County of Lanark, North Britain, Rope and Sail Maker, for an invention for—"Improvements in preparing and spinning hemp and other fibrous materials for the purpose of making ropes, twines, and other similar articles." <i>Letters Patent sealed.</i>                                                           |
| STEWART.<br>1st October 1852.               | 118. ALEXANDER STEWART, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in the manufacture or production of ornamental fabrics." <i>Provisional protection only.</i>                                                                                                                                   |
| ENNIS.<br>1st October 1852.                 | 119. GEORGE ENNIS, of Jersey, Iron and Brass Founder and Machinist, for an invention for—"Improvements in gaffs and booms." <i>Provisional protection only.</i>                                                                                                                                                                                             |



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| COLLIER.<br>1st October 1852.   | 120. GEORGE COLLIER, of Halifax, in the County of York, Mechanic, for an invention for—"Improvements in the manufacture of carpets and other fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                            |
| STEVENS.<br>1st October 1852.   | 121. JOHN LEE STEVENS, of Kennington, in the County of Surrey, for an invention for—"Improvements in furnaces."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                   |
| BRUCE.<br>1st October 1852.     | 122. DUNCAN BRUCE, of Canada, North America, Gentleman, for an invention for—"Improvements in rotary steam engines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                              |
| WHYTOCK.<br>1st October 1852.   | 123. RICHARD WHYTOCK, of Green Park, Libberton, in the County of Mid Lothian for an invention for—"Improvements in the manufacture of fringes, and of pleat for these and other ornamental work."<br><i>Letters Patent sealed.</i>                                                                                                                                 |
| HEIGHWAY.<br>1st October 1852.  | 124. RICHARD HUSBAND HEIGHWAY, of the New Road, in the County of Middlesex, for an invention for—"Improvements in paving roads and other surfaces."<br><i>Letters Patent sealed ; no specification filed.</i>                                                                                                                                                      |
| HUNT.<br>1st October 1852.      | 125. THOMAS HUNT, of Leman Street, in the County of Middlesex, Gun Maker, for an invention for—"Improvements in fire-arms."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                       |
| BELL.<br>1st October 1852.      | 126. GEORGE BELL, of Wellington Street, Goswell Street, in the County of Middlesex, for an invention for—"Improvements in saturating canvas and other fabrics, in order to render them buoyant and waterproof."<br><i>Provisional protection only.</i>                                                                                                             |
| PARKER.<br>1st October 1852.    | 127. ROBERT WHIPPLE PARKER, of Roxbury, in the State of Massachusetts and United States of America, for an invention for—"A new or improved mode of giving rotatory motion to a shaft of a circular saw or other mechanical contrivance."<br><i>Letters Patent sealed.</i>                                                                                         |
| ROGERS.<br>1st October 1852.    | 128. WILLIAM ROGERS, of 125, Long Acre, in the County of Middlesex, for an invention for—"Improvements in studs, buttons, and other fasteners."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| COX.<br>1st October 1852.       | 129. JOSEPH COX, of Heston, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of gates and hurdles."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| WESTHORN.<br>1st October 1852.  | 130. ISAAC WESTHORN, of 9, George Yard, in the City of London, for an invention for—"Improvements in grinding wheat and other grain."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                    |
| OMMANNEY.<br>1st October 1852.  | 131. HENRY MORTLOCK OMMANNEY, of the City of Chester, Esquire, for an invention for—"An improvement in the manufacture of guns, cannons, and other ordnance."<br><i>Complete specification ; Letters Patent sealed.</i>                                                                                                                                            |
| OMMANNEY.<br>1st October 1852.  | 132. HENRY MORTLOCK OMMANNEY, of the City of Chester, Esquire, for an invention for—"An improvement in the manufacture of cylinders for hydraulic presses and other engines."<br><i>Complete specification ; Letters Patent sealed.</i>                                                                                                                            |
| OMMANNEY.<br>1st October 1852.  | 133. HENRY MORTLOCK OMMANNEY, of the City of Chester, Esquire, for an invention for—"An improvement in the manufacture of wheels for railway carriages."<br><i>Complete specification ; Letters Patent sealed.</i>                                                                                                                                                 |
| OMMANNEY.<br>1st October 1852.  | 134. HENRY MORTLOCK OMMANNEY, of the City of Chester, Esquire, for an invention for—"An improvement in the manufacture of stamp-heads for crushing ores."<br><i>Complete specification ; Letters Patent sealed.</i>                                                                                                                                                |
| GRIFFITHS.<br>1st October 1852. | 135. ROBERT GRIFFITHS, of Great Ormond Street, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus for indicating the number of persons entering and the distance travelled in public or other conveyances and places, and for the prevention of fraud upon proprietors of public conveyances."<br><i>Letters Patent sealed.</i> |
| NIXEY.<br>1st October 1852.     | 136. WILLIAM GEORGE NIXEY, of Moor Street, in the County of Middlesex, Oil and Colourman, for an invention for—"Improvements in tills and other receptacles for money."<br><i>Letters Patent sealed.</i>                                                                                                                                                           |
| JACKSON.<br>1st October 1852.   | 137. ARTHUR JACKSON, of Exchange Court, Liverpool, in the County of Lancaster, for an invention for—"Improvements in gas burners."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                |

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| PEACOCK.<br>1st October 1852.   | 138. RICHARD ATKINSON PEACOCK, of Slyne Lodge, near Lancaster, in the county of Lancaster, Civil Engineer, for an invention for—"An improved construction of culvert for sewers, for the purposes of drainage."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                 |
| LEWIS.<br>1st October 1852.     | 139. WILLIAM LEWIS, of Piccadilly, in the County of Middlesex, Surgeon and Apothecary, for an invention for—"Improvements in compounding medicines in the form of pills."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                             |
| ROBSON.<br>1st October 1852.    | 140. THOMAS ROBSON, of Woolwich Road, in the County of Kent, for an invention for—"Improvements in apparatus for igniting signal and other lights."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                   |
| PRICE.<br>1st October 1852.     | 141. ASTLEY PASTON PRICE, of Margate, in the County of Kent, for an invention for—"Improvements in the manufacture of citric and tartaric acids, and of certain salts of potash, soda, ammonia, lime, and baryta."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                    |
| BARLOW.<br>1st October 1852.    | 142. HENRY BERNOULLI BARLOW, of Manchester, in the County of Lancaster, Patent Agent and Consulting Engineer, for an invention for—"Improvements in the manufacture of cylinders for carding cotton and other fibrous substances."<br><i>A communication. Letters Patent sealed.</i>                                                                                                                                                                                                   |
| GARDNER.<br>1st October 1852.   | 143. JOHN LAWRENCE GARDNER, of Whitecross Street, London, Inkmaker, for an invention for—"Improvements in bottles and other vessels for holding liquids."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                             |
| SEATON.<br>1st October 1852.    | 144. WILLIAM SEATON, of Coleshill Street, Pimlico, London, for an invention for—"Improvements in the construction of iron vessels, and in sheathing or covering the same."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                            |
| NICOLL.<br>1st October 1852.    | 145. DONALD NICOLL, of the firm of H. J. and D. Nicoll, of Regent Street, for an invention for—"Improvements in mourning bands for the arm or hat."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                             |
| BRUNDAGE.<br>1st October 1852.  | 146. EDWIN LEWIS BRUNDAGE, of Jewin Crescent, in the City of London, Gentleman, for an invention for—"Improved machinery for forging nails, brads, and screw-blanks."<br><i>A communication. Letters Patent sealed.</i>                                                                                                                                                                                                                                                                |
| WHELE.<br>2nd October 1852.     | 147. EDWIN WHELE, of Shiffnal, in the County of Salop, Engineer, for an invention for—"Improvements in apparatus for burning candles, and in horological apparatus attached thereto."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                 |
| TURNER.<br>2nd October 1852.    | 148. EDWARD WILLIAM KEMBLE TURNER, of Praed Street, Paddington, in the County of Middlesex, for an invention for—"Certain improvements in machinery for sweeping or cleaning chimnies, also for more effectually extinguishing them when on fire."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                    |
| WHELE.<br>2nd October 1852.     | 149. EDWIN WHELE, of Shiffnal, in the County of Salop, Engineer, for an invention for—"An improved rotatory engine, to be worked by steam, air, or gases."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                      |
| BOYD.<br>2nd October 1852.      | 150. THOMAS BOYD, of Glasgow, in the county of Lanark, North Britain, Calico Printer, for an invention for—"Improvements in the treatment or finishing of woven fabrics."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                                                                                                                     |
| SHARP.<br>2nd October 1852.     | 151. DAVID WILKINSON SHARP, of Bingley, in the county of York, Manufacturer, for an invention for—"Improvements in machinery for combing and drawing a sliver of wool, flax, silk waste, and other fibrous substances, and in apparatus for constructing screws to be used in a part or parts of such machinery."<br><i>Letters Patent sealed.</i><br><i>Note.—Disclaimer allowed for, "And in apparatus for constructing screws to be used in a part or parts of such machinery."</i> |
| DE VARROC.<br>2nd October 1852. | 152. EUGÈNE DE VARROC, of Regent Street, in the county of Middlesex, Artist, for an invention for—"Improvements in rendering glass reflective."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                 |
| BROWN.<br>2nd October 1852.     | 153. DAVID STEPHENS BROWN, of No. 2, Alexandrian Lodge, Old Kent Road, Surry, Gentleman, for an invention for—"An agricultural implement for tilling the soil."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                       |
| BROWN.<br>2nd October 1852.     | 154. DAVID STEPHENS BROWN, of No. 2, Alexandrian Lodge, Old Kent Road, Surry, Gentleman, for an invention for—"Obtaining useful products from sewers."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                          |



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| BROWN.<br>2nd October 1852.      | 155. DAVID STEPHENS BROWN, of No. 2, Alexandrian Lodge, Old Kent Road, Surry, Gentleman, for an invention for—"An improved means of navigating the water by ships."<br><i>Letters Patent sealed.</i>                                                                                                                                     |
| BROWN.<br>2nd October 1852.      | 156. JOSEPH BROWN, of Leadenhall Street, in the City of London, Upholsterer and Cabinet Maker, for an invention for—"Improvements in beds, sofas, chairs, and other articles of furniture, to render them more suitable for travelling and other purposes."<br><i>Letters Patent sealed.</i>                                             |
| MAYELSTON.<br>2nd October 1852.  | 157. JAMES MAYELSTON, of Elloughton, in the County of York, Gentleman, for an invention for—"Improvements in the method of applying heat to the heating of water, for feeding or supplying the boiler or boilers of steam-engines, or for other purposes."<br><i>Provisional protection only.</i>                                        |
| WALKER.<br>2nd October 1852.     | 158. FRANCIS PRIME WALKER, of Manchester, in the County of Lancaster, Ironmonger, for an invention for—"Improvements in machinery for communicating signals to the drivers of railway engines."<br><i>Provisional protection only.</i>                                                                                                   |
| FOTHERGILL.<br>2nd October 1852. | 159. BENJAMIN FOTHERGILL, of Manchester, in the County of Lancaster, Mechanical Engineer, for an invention for—"Improvements in certain machinery for preparing to be spun, cotton, wool, flax, silk, and other fibrous substances."<br><i>Provisional protection only.</i>                                                              |
| BURCH.<br>2nd October 1852.      | 160. JOSEPH BURCH, of Cragg Hall, near Macclesfield, in the County of Chester, Carpet Manufacturer, for an invention for—"Certain improvements in building and propelling ships and vessels."<br><i>Letters Patent sealed.</i>                                                                                                           |
| BROOMAN.<br>2nd October 1852.    | 161. RICHARD ARCHIBALD BROOMAN, of the firm of J. C. Robertson and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in purifying and disinfecting fats and fatty bodies, and in separating oleine from stearine."— <i>A communication.</i><br><i>Provisional protection only.</i> |
| FUCHS.<br>2nd October 1852.      | 162. JOHN IGNATIUS FUCHS, Engineer and Watchmaker, of Zerbst, Duchy of Anhalt-Dessau, for an invention for—"An electro-magnetic apparatus."<br><i>Letters Patent sealed.</i>                                                                                                                                                             |
| POOLE.<br>2nd October 1852.      | 163. MOSES POOLE, of Serle Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of tables, sofas, bedsteads, stands, chairs, and other articles of furniture, and the frames and bodies of musical instruments."— <i>A communication.</i><br><i>Letters Patent sealed.</i>               |
| JOHNSON.<br>2nd October 1852.    | 164. JOHN ROBERT JOHNSON, of Stanbrook Cottage, Hammersmith, in the County of Middlesex, Chemist, for an invention for—"Improvements in fixing colouring matter of madder in printing and dyeing."<br><i>Letters Patent sealed.</i>                                                                                                      |
| POOLE.<br>2nd October 1852.      | 165. MOSES POOLE, of Serle Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in constructing bridges, viaducts, and such like structures."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                     |
| POWELL.<br>2nd October 1852.     | 166. SAMUEL POWELL, of 52, Regent Street, in the County of Middlesex, for an invention for—"Improvements in the manufacture of certain articles of wearing apparel."<br><i>Provisional protection only.</i>                                                                                                                              |
| FAULDING.<br>2nd October 1852.   | 167. JOSEPH FAULDING, of Edward Street, Hampstead Road, in the County of Middlesex, for the invention for—"Improvements in machinery for sawing and cutting wood and other substances."<br><i>Letters Patent sealed.</i>                                                                                                                 |
| MACINTOSH.<br>2nd October 1852.  | 168. JOHN MACINTOSH, of Berners Street, in the County of Middlesex, for an invention for—"Improvements in compositions to be used as paints."<br><i>Letters Patent sealed.</i>                                                                                                                                                           |
| POOLE.<br>2nd October 1852.      | 169. MOSES POOLE, of Serle Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in machinery for mowing and reaping."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                             |
| ALLPORT.<br>2nd October 1852.    | 170. EDWARD ALLPORT, of Aldermanbury, in the City of London, Button Manufacturer, for an invention for—"An improvement in the manufacture of buttons, by making them with elastic shanks."<br><i>Letters Patent sealed.</i>                                                                                                              |
| LEWIS.<br>2nd October 1852.      | 171. WILLIAM JAMES LEWIS, of London, but now residing at Turin, in the Kingdom of Sardinia, Civil Engineer, but now at Paris, for an invention for—"A slideless stadia sight applicable to rifles and other fire-arms."<br><i>Letters Patent sealed.</i>                                                                                 |



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| JOBSON.<br>2nd October 1852.              | 172. JOHN JOBSON, of Litchurch, in the county of Derby, Iron-founder, for an invention for—"Improvements in manufacturing moulds for casting metal."<br><i>Letters Patent sealed.</i>                                                                                                                                                                     |
| REDWOOD.<br>2nd October 1852.             | 173. THEOPHILUS REDWOOD, of Montagu Street, Russell Square, London, for an invention for—"Improvements in the manufacture of gelatine."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                  |
| DUNCAN.<br>2nd October 1852.              | 174. ALEXANDER CAMPBELL DUNCAN, of Glasgow, Calico Printer, for an invention for—"Improvements in the art or process of dyeing cotton or other textile fabrics, or cotton or other yarns, when printed or mordanted with the colouring matter of madder or of dyewoods, and in machinery or apparatus employed therein."<br><i>Letters Patent sealed.</i> |
| CAVANAGH.<br>2nd October 1852.            | 175. MICHAEL CAVANAGH, of Notting Hill, in the County of Middlesex, Locksmith for an invention for—"Certain improvements in mortice-lock spindles."<br><i>Letters Patent sealed.</i>                                                                                                                                                                      |
| ASTLEY.<br>STEPHENS.<br>2nd October 1852. | 176. PETER HYDE ASTLEY, of Stratford, in the County of Essex, Gentleman, and JOHN FIGGINS STEPHENS, of De Beauvoir Square, Kingsland, in the County of Middlesex, Gentleman, for an invention for—"An improved construction for floating vessels, having for its object the rendering them safe means of transit."<br><i>Letters Patent sealed.</i>       |
| SIMPSON.<br>ISAAC.<br>2nd October 1852.   | 177. WILLIAM SIMPSON, Paper Maker, and JOHN SHELTON ISAAC, Saddler, both of Maidstone, in the County of Kent, for an invention for—"An improved composition to be used principally as a substitute for wood or other materials where strength and lightness are required in the manufacture of various articles."<br><i>Letters Patent sealed.</i>        |
| NEWTON.<br>2nd October 1852.              | 178. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in stoppers for bottles and other similar vessels."<br><i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                  |
| NEWTON.<br>2nd October 1852.              | 179. FREDERICK NEWTON, of Fleet Street, in the City of London, Optician, for an invention for—"Improvements in the apparatus to be employed for producing photographic pictures."<br><i>Letters Patent sealed.</i>                                                                                                                                        |
| SLACK.<br>2nd October 1852.               | 180. JOHN SLACK, of Manchester, in the County of Lancaster, Manager, for an invention for—"Improvements in the manufacture of textile fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                          |
| NEWTON.<br>2nd October 1852.              | 181. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in governors or regulators for regulating the pressure of gas as it passes from the main or other pipes to the burners."<br><i>A communication.</i><br><i>Letters Patent sealed.</i>             |
| ARCHIBALD.<br>2nd October 1852.           | 182. SAMUEL GEORGE ARCHIBALD, of Pall Mall, in the County of Middlesex, Gentleman, for an invention for—"An improved mode of extracting or rendering animal fats and oils."<br><i>Letters Patent sealed.</i>                                                                                                                                              |
| GREEN.<br>2nd October 1852.               | 183. THOMAS GREEN, junior, of Westbourne Park Villas, in the County of Middlesex, Omnibus Proprietor, for an invention for—"Improvements in the construction of omnibuses."<br><i>Provisional protection only.</i>                                                                                                                                        |
| NEEDHAM.<br>2nd October 1852.             | 184. JOSEPH NEEDHAM, of 26, Piccadilly, in the County of Middlesex, Gun Manufacturer, for an invention for—"Improvements in breech-loading fire-arms, and in apparatus connected therewith."<br><i>Letters Patent sealed.</i>                                                                                                                             |
| MACCONNELL.<br>2nd October 1852.          | 185. JAMES EDWARD MACCONNELL, of Wolverton, in the county of Buckingham, Civil Engineer, for an invention for—"Improvements in sheathing iron vessels, and in covering, lining, or coating sheets or other manufactured articles of iron or steel."<br><i>Provisional protection only.</i>                                                                |
| BURNIE.<br>2nd October 1852.              | 186. JOHN BURNIE, of Castle Douglas, in the County of Kirkcudbright, North Britain, Smith, for an invention for—"Improvements in cutting or reducing vegetable substances."<br><i>Provisional protection only.</i>                                                                                                                                        |
| MILLER.<br>2nd October 1852.              | 187. ALEXANDER MILLER, of Glasgow, in the county of Lanark, North Britain, Manager, for an invention for—"Improvements in the treatment or finish of textile fabrics and materials."<br><i>Letters Patent sealed.</i>                                                                                                                                     |



WEEMS.  
2nd October 1852.

188. JOHN WEEMS, of Johnstone, in the County of Renfrew, North Britain, Tinsmith, for an invention for—"Improvements in obtaining and applying motive-power."  
*Letters Patent sealed.*

WILLISON.  
2nd October 1852.

189. ALEXANDER WILLISON, of the Manse of Dundonald, in the County of Ayr, North Britain, Minister of Dundonald, for an invention for—"Improvements in thrashing machinery."  
*Letters Patent sealed.*

YOUNG.  
2nd October 1852.

190. JAMES ANDERSON YOUNG, of the firm of A. S. Young and Son, of 185, Buchanan Street, Glasgow, in the County of Lanark, North Britain, Surgeon Dentist, for an invention for—"Certain improvements in dental operations, and in apparatus or instruments to be used therein."  
*Letters Patent sealed.*

STRINGFELLOW.  
2nd October 1852.

191. JOHN STRINGFELLOW, of Chard, in the County of Somerset, Engineer, for an invention for—"Improvements in galvanic batteries for medical and other purposes."  
*Letters Patent sealed.*

PHILPS.  
2nd October 1852.

192. GEORGE JOHN PHILPS, of Friday Street, in the City of London, Manufacturer, for an invention for—"Improvements in hats and other like coverings for the head."  
*Letters Patent sealed.*

RIDLEY.  
2nd October 1852.

193. RALPH ERRINGTON RIDLEY, of Hexham, in the County of Northumberland, Tanner, for an invention for—"Improvements in cutting and reaping machines."  
*Letters Patent sealed.*

LAWRIE.  
2nd October 1852.

194. THOMAS LAWRIE, of Glasgow, in the County of Lanark, North Britain Glass Decorator, for an invention for—"Improvements in forming and protecting inscriptions and devices in exposed situations."  
*Provisional protection only.*

STUART.  
2nd October 1852.

195. GEORGE STUART, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in treating the fleeces or natural coverings of sheep and other animals, when on the animals."  
*Letters Patent sealed.*

ANDERSON.  
4th October 1852.

196. Sir JAMES CALEB ANDERSON, Bar<sup>t</sup>, of Fermoy, in the County of Cork, Ireland, for an invention for—"Improvements in locomotive-engines and the carriages drawn by them, part or parts of such improvements being applicable to other purposes."  
*Provisional protection NOT granted.*

MARSHALL.  
4th October 1852.

197. JOHN GOOCH MARSHALL, of Clifton Street, Finsbury, in the County of Middlesex, Cabinet Maker, for an invention for—"Improvements in rendering weather-tight doors, casements, and other similar openings."  
*A communication.*

*Provisional protection only.*

BATES.  
4th October 1852.

198. EDWIN BATES, of No. 7, Great Portland Street, London, County of Middlesex, Gentleman, for an invention for—"Retarding and effectually stopping at discretion, railway-carriages, and also for carriages of all descriptions, for the more safely descending inclined planes, either in the streets or on turnpike roads, to be called Bates's break."  
*Complete specification; protection for SIX months only.*

BATES.  
4th October 1852.

199. EDWIN BATES, of No. 7, Great Portland Street, London, County of Middlesex, Gentleman, for an invention for—"Certain improvements for deriving motive-power from expansive fluids, and the better application and economy thereof; for propelling ships and other vessels in sea, river, and canal navigation; also in the shape and action of wind-sails; the use of water as a motive-power for driving machines, mills, &c., the construction of turbines, air and water pumps, marine pumps for emptying ships of bilge water, and other useful purposes."  
*Letters Patent sealed; no specification filed.*

WELCH.  
4th October 1852.

200. EDWARD WELCH, of 90, Oxford Terrace, Hyde Park, in the County of Middlesex, Architect, for an invention for—"Improvements in fireplaces and flues, and in apparatus connected therewith."  
*Provisional protection only.*

WATTS.  
4th October 1852.

201. MARTIN WATTS, of Patricroft, near Manchester, in the County of Lancaster, Cotton Spinner, for an invention for—"Certain improvements in machinery or apparatus for roving or preparing cotton and other fibrous substances for spinning."  
*Provisional protection only.*

WEST.  
4th October 1852.

202. WILLIAM HAYWARD WEST, of Blenheim Street, Oxford Street, in the County of Middlesex, Ironmonger, for an invention for—"Improvements in wind-guards and chimney tops."  
*Provisional protection only.*

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| HAZARD.<br>4th October 1852.                | 203. ROBERT HAZARD, of 14, Lincoln's Inn Fields, in the County of Middlesex, Warming and Ventilating Engineer, for an invention for—"A calorific bath."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                      |
| JACOBY.<br>4th October 1852.                | 204. BENDIX ISING JACOBY, of Hamburg, Dentist, for an invention for—"Improvements in the means of fixing artificial teeth."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                  |
| BILLING.<br>4th October 1852.               | 205. MARTIN BILLING, of Holborn, London, and Charles Henry Street, Birmingham, in the County of Warwickshire, Brass Founder, for an invention for—"Certain improvements in the combination of metals having different capacities of vibration, to be used in the construction of certain useful articles."<br><i>Letters Patent sealed.</i>                                                                                                                                                                   |
| MOSELEY.<br>4th October 1852.               | 206. JOHN MOSELEY, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Certain improvements in machinery for cleansing linen and other fibrous materials."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                              |
| NAPIER.<br>LUND.<br>4th October 1852.       | 207. WILLIAM DONALD NAPIER, of George Street, in the City of Westminster, Gentleman, and WILLIAM LUND, of Cornhill, in the City of London, Manufacturer, for an invention for—"Improvements in apparatus for steering vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                              |
| MANWARING.<br>HAMBLIN.<br>4th October 1852. | 208. RICHARD MANWARING, of Maidstone, in the County of Kent, Watchmaker, and THOMAS HAMBLIN, also of Maidstone, Agricultural Laborer, for an invention for—"Improvements in ploughs."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                  |
| STOREY.<br>4th October 1852.                | 209. JAMES BARROW STOREY, junior, of Oakham, in the County of Rutland, Brewer, for an invention for—"Improvements in mouth-pieces for pipes and cigars."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                               |
| WEBB.<br>FROYSSELL.<br>4th October 1852.    | 210. HENRY WEBB, of Willenhall, in the County of Stafford, Engineer, and JOSEPH FROYSSELL, of the same place, Surgeon, for an invention for—"Improvements in fastening knobs to doors and other locks."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                      |
| SCOTT.<br>4th October 1852.                 | 211. THOMAS SCOTT, of 111, Drummond Street, Euston Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in applying and transmitting motive-power, and in accelerating the progress of bodies in motion."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                       |
| SLATER.<br>WATSON.<br>4th October 1852.     | 212. THOMAS SLATER, of Somers Place, New Road, St. Pancras, in the County of Middlesex, Optician, and JOSEPH JOHN WILLIAM WATSON, of Old Kent Road, in the County of Surrey, Docter of Philosophy, for an invention for—"Improvements in the application of electricity to illuminating purposes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                           |
| D'HENIN.<br>4th October 1852.               | 213. ANTOINE FRANÇOIS D'HENIN, of Malines, in the Kingdom of Belgium, Tobacco Manufacturer, for an invention for—"Improvements in the treatment and manufacture of tobacco."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                           |
| KENNEDY.<br>4th October 1852.               | 214. THOMAS KENNEDY, of Kilmarnock, in the county of Ayr, North Britain, Gun Manufacturer, for an invention for—"Improvements in obtaining and applying motive-power, which improvements, or parts thereof, are applicable to time keepers and clock work, and for measuring and registering the flow of water and other fluids and aeriform bodies."<br><i>Letters Patent sealed.</i>                                                                                                                        |
| ERSKINE.<br>4th October 1852.               | 215. JOHN ERSKINE, of Greenock, in the county of Renfrew, North Britain, felt manufacturer, for an invention for—"Improvements in the manufacture of felted and cemented fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                           |
| BROWN.<br>4th October 1852.                 | 216. ARCHIBALD BROWN, of Glasgow, in the County of Lanark, North Britain, Block Maker, for an invention for—"Improvements in the construction of sheaves for blocks."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                        |
| GARVEY.<br>4th October 1852.                | 217. MICHAEL ANGELO GARVEY, of No. 10, Jeffreys Terrace, Kentish Town, Middlesex, for an invention for—"More effectually dissipating the shock of collision in railway trains; reducing the surfaces exposed to atmospheric resistance, and diminishing oscillation, by making portions of the whole of each carriage elastic in every direction, and increasing the power of the carriage to resist severe pressure by means of metallic tubes in its longitudinal angles."<br><i>Letters Patent sealed.</i> |



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| <p>CLARK.<br/>5th October 1852.</p> <p>BURR.<br/>5th October 1852.</p> <p>BROWN.<br/>5th October 1852.</p> <p>CROSSKILL.<br/>5th October 1852.</p> <p>BÉRARD.<br/>5th October 1852.</p> <p>HOUSTON.<br/>5th October 1852.</p> <p>HOUSTON.<br/>5th October 1852.</p> <p>APSEY.<br/>5th October 1852.</p> <p>JIMENEZ.<br/>5th October 1852.</p> <p>MITCHELL.<br/>5th October 1852.</p> <p>NEWTON.<br/>5th October 1852.</p> <p>NEWTON.<br/>5th October 1852.</p> <p>BULLOUGH.<br/>WHITTAKER.<br/>WALMESLEY.<br/>5th October 1852.</p> <p>NICHOLSON.<br/>5th October 1852.</p> <p>PRESTWICH.<br/>PRESTWICH.<br/>PRESTWICH.<br/>5th October 1852.</p> <p>CROOK.<br/>5th October 1852.</p> | <p>218. WILLIAM CLARK, of Upper Street, Islington, in the County of Middlesex, Engineer, for an invention for—"Improvements in the construction of screw-propellers for propelling vessels."<br/><i>Provisional protection only.</i></p> <p>219. ARTHUR RICHARD BURR, of Halesowen, in the County of Worcester, Engineer, for an invention for—"Certain improvements in making gun and pistol barrels, applicable to the manufacture of other kinds of tubes."<br/><i>Letters Patent sealed.</i></p> <p>220. DAVID STEVENS BROWN, of No. 2, Alexandrian Lodge, Old Kent Road, Surry, Gentleman, for an invention for—"An improved apparatus or instrument for evaporating or distilling liquids."<br/><i>Letters Patent sealed.</i></p> <p>221. WILLIAM CROSSKILL, of Beverly, in the County of York, Civil Engineer, for an invention for—"Improvements in machines for cutting or reaping growing corn, clover, and grass."<br/><i>Letters Patent sealed.</i></p> <p>222. ARISTIDE BALTHAZARD BÉRARD, of Paris, in the Republic of France, Engineer, and Chevalier of the Legion of Honour, for an invention for—"Improvements in the construction of jetties, breakwaters, and docks, and other hydraulic constructions."<br/><i>Letters Patent sealed.</i></p> <p>223. JOHN HOUSTON, of No. 45, Nelson Square, in the Borough of Southwark, in the County of Surrey, Gentleman, for an invention for—"Improvements in obtaining motive-power when air and steam are used conjointly."<br/><i>Provisional protection only.</i></p> <p>224. JOHN HOUSTON, of No. 45, Nelson Square, in the Borough of Southwark, in the County of Surrey, Surgeon, for an invention for—"Improvements in metallic spring packings for pistons."<br/><i>Provisional protection only.</i></p> <p>225. JOSEPH APSEY, Engineer, of Blackfriars, in the County of Surrey, for an invention for—"Improvements in ship-building and in machinery for propelling."<br/><i>Letters Patent sealed.</i></p> <p>226. DIEGO JIMENEZ, of Percy Street, in the County of Middlesex, Merchant, for an invention for—"Improvements in the manufacture of soap."<br/><i>A communication.</i><br/><i>Letters Patent sealed.</i></p> <p>227. BENJAMIN MITCHELL, of Romsey, in the County of Hants, Builder, for an invention for—"Improvements in the construction of artificial legs."<br/><i>Letters Patent sealed.</i></p> <p>228. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery for boring or cutting rocks or other hard substances, for the purpose of tunnelling through mountains or making other excavations."<br/><i>A communication.</i><br/><i>Letters Patent sealed.</i></p> <p>229. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the means of producing a vacuum for various purposes, such as condensing steam, pumping water, exhausting air, or other purposes where a vacuum is required."<br/><i>A communication.</i><br/><i>Letters Patent sealed.</i></p> <p>230. JAMES BULLOUGH, Manufacturer, DAVID WHITTAKER, Overlooker, and JOHN WALMESLEY, Mechanical Designer, all of Blackburn, in the County of Lancaster, for an invention for—"Improvements in sizing machines."<br/><i>Letters Patent sealed.</i></p> <p>231. GEORGE WALKER NICHOLSON, of Pendleton, in the county of Lancaster. Tool and Engine Fitter, for an invention for—"Improvements in screw bolts, nuts, and washers, and in the machinery or apparatus for making the same."<br/><i>Letters Patent sealed.</i></p> <p>232. JOHN PRESTWICH the elder, SAMUEL PRESTWICH, and JOHN PRESTWICH the younger, all of Farnworth, near Bolton, in the county of Lancaster, Spinners and Manufacturers, for an invention for—"Improvements in machinery or apparatus for cleaning and finishing woven fabrics."<br/><i>Letters Patent sealed.</i></p> <p>233. WILLIAM CROOK, of Blackburn, in the County of Lancaster, Weaver, for an invention for—"Improvements in looms."<br/><i>Letters Patent sealed.</i></p> |
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| BALMFORTH.<br>BALMFORTH.<br>BALMFORTH.<br>5th October 1852. | 234. JOHN BALMFORTH, WILLIAM BALMFORTH, and THOMAS BALMFORTH, all of Clayton, in the County of Lancaster, Ironmasters, for an invention for—"Improvements in steam-boilers, and in fixing the same." <i>Letters Patent sealed.</i>                                                                                                                                                                                          |
| BOOTH.<br>BOOTH.<br>5th October 1852.                       | 235. ADAM and JOHN BOOTH, both of Manchester, in the County of Lancaster, Machine Makers, for an invention for—"Improvements in platting or braiding machines, which machines are applicable to manufacturing webs for making door and other mats." <i>Letters Patent sealed.</i>                                                                                                                                           |
| BROWN.<br>5th October 1852.                                 | 236. ROBERT BROWN, of Salford, in the County of Lancaster, Manager, for an invention for—"An improved taking-up motion applicable to looms and other similar purposes." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                       |
| JÄGER.<br>5th October 1852.                                 | 237. HERM JÄGER, of Ludgate Hill, in the City of London, Merchant, for an invention for—"Improvements in the treatment of cotton and other similar fabrics by the introduction of chemical agents, to supersede the use of dung in the dunging process."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                             |
| ELLIOTT.<br>5th October 1852.                               | 238. WILLIAM GILBERT ELLIOTT, of Blisworth, in the County of Northampton, Gentleman, for an invention for—"Improvements in the manufacture of bricks, pipes, tiles, and other articles capable of being moulded." <i>Letters Patent sealed.</i>                                                                                                                                                                             |
| GOUGY.<br>5th October 1852.                                 | 239. PIERRE FREDERIC GOUGY, of Castle Street, Leicester Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in paving streets, roads, and ways." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                |
| TURNBULL.<br>5th October 1852.                              | 240. THOMAS TURNBULL, of Rosemill, Bleachfield, Dundee, in Scotland, for an invention for—"Improvements in the preparation and treatment of flax, hemp, and other similar vegetable fibres." <i>Provisional protection only.</i>                                                                                                                                                                                            |
| ROSS.<br>5th October 1852.                                  | 241. JESSE ROSS, of Keighley, in the County of York, Gentleman, for an invention for—"Certain improvements in machinery or apparatus for combing wool, cotton, silk, flax, and other suitable fibrous materials." <i>Provisional protection only.</i>                                                                                                                                                                       |
| MACKENZIE.<br>BLAIR.<br>5th October 1852.                   | 242. WILLIAM MACKENZIE, of Glasgow, in the County of Lanark, North Britain, Publisher, and GEORGE BLAIR, of the same place, Master of Arts, for an invention for—"Improvements in the arrangement and construction of graduated scales for measuring instruments." <i>Letters Patent sealed.</i>                                                                                                                            |
| GETLEY.<br>5th October 1852.                                | 243. SAMUEL GETLEY, of 6, Ivy Street, Birkenhead, in the County of Chester, for an invention for—"Improvements in water-closets." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                             |
| WESTBY.<br>5th October 1852.                                | 244. JOSEPH WESTBY, of Nottingham, in the County of Nottingham, for an invention for—"Improvements in machinery applicable to the manufacture of lace and other weavings." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                    |
| DRAY.<br>5th October 1852.                                  | 245. WILLIAM DRAY, of Swan Lane, London Bridge, in the City of London, for an invention for—"Improvements in machinery for reaping and mowing." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                               |
| COTTAM.<br>5th October 1852.                                | 246. GEORGE HALLEN COTTAM, of Charles Street, Hampstead Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in chairs, sofas, and bedsteads." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                      |
| NICKELS.<br>THORNTON.<br>5th October 1852.                  | 247. CHRISTOPHER NICKELS, of York Street, Lambeth, in the County of Surry, Gentleman, and FREDERICK THORNTON, of the Borough of Leicester, in the County of Leicester, Designer, for an invention for—"Improvements in weaving." <i>Letters Patent sealed.</i>                                                                                                                                                              |
| BIRD.<br>6th October 1852.                                  | 248. JAMES BIRD, of No. 16, Orchard Street, Portman Square, in the County of Middlesex, Gentleman, for an invention for—"A new artificial manure." <i>Provisional protection only.</i>                                                                                                                                                                                                                                      |
| HUGHES.<br>6th October 1852.                                | 249. JOHN HUGHES, of Carnarvonshire, Wales, Quarryman, for an invention for—"An improved method of constructing roofs and sides of houses, buildings, and other structures." <i>Provisional protection only.</i>                                                                                                                                                                                                            |
| GILBEE.<br>6th October 1852.                                | 250. WILLIAM ARMAND GILBEE, of the English and Foreign Patent Office, 4, South Street, Finsbury, in the County of Middlesex, Gentleman, for an invention for—"An improved mode of disinfecting putrid and fecal matters; and converting fecal matters into manure; also applicable to the disinfection of cesspools, drains, sewers, and other similar receptacles."— <i>A communication.</i> <i>Letters Patent sealed.</i> |



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| BELLFORD.<br>6th October 1852.           | 251. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, in the City of London, Patent Agent, for an invention for—"Improvements in sewing machines."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                                     |
| SLADE.<br>6th October 1852.              | 252. JACOB TILTON SLADE, of Pall Mall, in the county of Middlesex, Gentleman, for an invention for—"An improved mode of driving certain machines, and an improved driving band or chain to be used therewith."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| DE BERGUE.<br>6th October 1852.          | 253. CHARLES DE BERGUE, Engineer, Dowgate Hill, London, for an invention for—"Certain improvements in machinery for punching metals and for rivetting together metallic plates or bars."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                         |
| SHAW.<br>6th October 1852.               | 254. ROBERT SHAW, of Portlaw, in the County of Waterford, in Ireland, Cotton Spinner and Manufacturer, for an invention for—"Pre-arranging, ascertaining, and registering the rate of travelling of locomotive engines and of railway or other carriages."<br><i>Letters Patent sealed.</i>                                                                                                                                       |
| CROOKE.<br>WOOD.<br>6th October 1852.    | 255. JOHN CROOKE, of Manchester, Packer, and JOHN WILKINSON WOOD, of the same place, Manager, for an invention for—"Certain improvements in the method of preserving hoop iron from oxydation or decay."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                         |
| JEFFCOTT.<br>6th October 1852.           | 256. JOHN CRONIN JEFFCOTT, of No. 1, Anglesea Street, in the County of the City of Cork, Agriculturalist, for an invention for—"Producing heat for generating steam, and applicable to and for other purposes for which this invention has not been hitherto used, under the name and title of a heat-producer and steam-generator."<br><i>Letters Patent sealed.</i>                                                             |
| DELEMER.<br>6th October 1852.            | 257. ALEXIS DELEMER, of Radcliffe, in the County of Lancaster, Gentleman, for an invention for—"Improvements in machinery or apparatus for manufacturing pile fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                          |
| CHALMERS.<br>6th October 1852.           | 258. DAVID CHALMERS, of Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in looms for weaving wire web or cloth by power."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                               |
| NICHOLSON.<br>6th October 1852.          | 259. GEORGE WALKER NICHOLSON, of Pendleton, in the County of Lancaster, Tool and Engine Fitter, for an invention for—"Improvements in vices, and in the means or method used for fixing the same."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                               |
| FULLER.<br>KNEVITT.<br>6th October 1852. | 260. WILLIAM COLES FULLER, of Bucklersbury, in the City of London, Patent Spring Manufacturer, and GEORGE MORRIS KNEVITT, of New York, in the United States of America, but now residing at Argyll Street, New Road, in the County of Middlesex, Gentleman, for an invention for—"Certain improvements in applying indian-rubber or other similarly elastic substance as springs for carriages."<br><i>Letters Patent sealed.</i> |
| ABBOTT.<br>6th October 1852.             | 261. WILLIAM ABBOTT, of Bideford, in the County of Devon, Maltster and Brewer, for an invention for—"An improved plough."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                  |
| GLOVER.<br>CAIL.<br>6th October 1852.    | 262. ROBERT MORTIMER GLOVER, of Newcastle-on-Tyne, Doctor of Medicine, and JOHN CAIL, of the same place, Mathematical Instrument Maker, for an invention for—"Improvements in miners' or safety lamps."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                          |
| WELLS.<br>6th October 1852.              | 263. JOHN GAYLORD WELLS, of Hartford, Connecticut, in the United States of America, but now of Trafalgar Square, in the County of Middlesex, Printer, for an invention for—"An improved construction of self-inking stamping apparatus."<br><i>Provisional protection only.</i>                                                                                                                                                   |
| NEWTON.<br>6th October 1852.             | 264. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in apparatus for manufacturing gas and coke."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                          |
| COLLISON.<br>6th October 1852.           | 265. DAVID COLLISON, of Preston, in the County of Lancaster, Cloth-looker, for an invention for—"Improvements in the construction of shuttle skewers."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                           |
| JOWETT.<br>JOWETT.<br>6th October 1852.  | 266. HENRY ALFRED JOWETT and FREDERICK WILLIAM JOWETT, of Sawley, in the County of Derby, Engineers, for an invention for—"Improvements in apparatus for heating; which improvements are particularly applicable for generating steam or evaporating solutions, and may be applied for heating purposes generally."<br><i>Provisional protection only.</i>                                                                        |



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| GALE.<br>FENSOM.<br>6th October 1852. | 267. THOMAS BARKER WALKER GALE and JONATHAN FENSOM, of Homerton, in the County of Middlesex, Engineers, for an invention for—"Improvements in the means of joining or coupling bands or straps."<br><i>Letters Patent sealed.</i>                                                     |
| CROSSBY.<br>6th October 1852.         | 268. WILLIAM CROSSBY, of Sheffield, in the County of York, for an invention for—"Improvements in the ventilation of coal pits and mines, ships, rooms, and buildings generally."<br><i>Provisional protection only.</i>                                                               |
| MORGAN.<br>6th October 1852.          | 269. WILLIAM VAUGHAN MORGAN, of Jewin Crescent, in the City of London, Merchant, for an invention for—"Improvements in the preparation of oils for the purposes of illumination, and lubricating machinery."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                |
| GRIMES.<br>6th October 1852.          | 270. JOHN GRIMES, of Coton House, in the County of Warwick, Esquire, Captain in the Madras Army, for an invention for—"An atmospheric freezing machine."<br><i>Provisional protection only.</i>                                                                                       |
| WESTBY.<br>6th October 1852.          | 271. JOSEPH WESTBY, of Nottingham, for an invention for—"Improvements in twist lace machinery."<br><i>Letters Patent sealed.</i>                                                                                                                                                      |
| HILL.<br>6th October 1852.            | 272. JOSEPH HILL, of Birmingham, in the County of Warwick, Stamper, &c., for an invention for—"A machine for stamping metals and forging iron and steel."<br><i>Letters Patent sealed.</i>                                                                                            |
| CHATWIN.<br>6th October 1852.         | 273. JOHN FREDERICK CHATWIN, of Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of brushes."<br><i>Letters Patent sealed.</i>                                                                                                             |
| CHATWIN.<br>6th October 1852.         | 274. JOHN FREDERICK CHATWIN, of Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of buttons."<br><i>Letters Patent sealed.</i>                                                                                                             |
| NORMANDY.<br>6th October 1852.        | 275. ALPHONSE RENÉ LE MIRE DE NORMANDY, of Judd Street, in the County of Middlesex, for an invention for—"Improvements in obtaining fresh water from salt water."<br><i>Letters Patent sealed.</i>                                                                                    |
| WARREN.<br>6th October 1852.          | 276. FRANCIS WARREN, of 16, Millbank Street, in the County of Middlesex, for an invention for—"Improvements in gas burners."<br><i>Letters Patent sealed.</i>                                                                                                                         |
| DUNDONALD.<br>6th October 1852.       | 277. Admiral the EARL of DUNDONALD, of Belgrave Road, in the County of Middlesex, for an invention for—"Improvements in coating and insulating wire."<br><i>Letters Patent sealed.</i>                                                                                                |
| ADOLPH.<br>6th October 1852.          | 278. WILLIAM ADOLPH, of 9, Bury Court, St. Mary Axe, in the City of London, for an invention for—"Improvements in apparatus for warming and ventilating rooms."<br><i>Letters Patent sealed.</i>                                                                                      |
| CLARK.<br>6th October 1852.           | 279. JAMES CLARK, of Chapel House, Paisley, in the County of Renfrew, North Britain, Esquire, for an invention for—"Improvements in weaving carpets and other fabrics, and in the machinery or apparatus employed therein."— <i>A communication.</i><br><i>Letters Patent sealed.</i> |
| BISSELL.<br>7th October 1852.         | 280. WILLIAM BISSELL, of Wolverhampton, for an invention for—"An improved cramp or improved cramps for cramping floors, doors, and joiners' and ship work generally."<br><i>Letters Patent sealed.</i>                                                                                |
| PERKES.<br>7th October 1852.          | 281. SAMUEL PERKES, Civil Engineer, 1, Walbrook, City, London, for an invention for—"Certain improvements in the mode of treating skins, hides, leather, and other manufactured and raw productions."<br><i>Provisional protection only.</i>                                          |
| BLAIR.<br>7th October 1852.           | 282. JOHN BLAIR, of Ducie Bridge Mill, Manchester, in the County of Lancaster, for an invention for—"Certain improvements in the manufacture of waddings, and in the machinery for making the same."<br><i>Letters Patent sealed.</i>                                                 |
| GREAVES.<br>7th October 1852.         | 283. THOMAS GREAVES, of Manchester, in the County of Lancaster, Veterinary Surgeon, for an invention for—"Improvements in the method or means of obtaining and employing motive-power."<br><i>Letters Patent sealed.</i>                                                              |
| SIMPSON.<br>7th October 1852.         | 284. GEORGE SIMPSON, of Manchester, in the County of Lancaster, Machine Maker, for an invention for—"Certain improvements in machines or apparatus for weighing."<br><i>Letters Patent sealed.</i>                                                                                    |



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| PETTITT.<br>FORSYTH.<br>7th October 1852. | 285. EDWIN PETTITT, of Kingsland, in the County of Middlesex, Civil Engineer and JAMES FORSYTH, of Caldbeck, Cumberland, Spinner, for an invention for—"Improvements in spinning and drawing cotton and other fibrous substances, and in machinery for that purpose." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                 |
| BELLFORD.<br>7th October 1852.            | 286. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, in the City of London, Patent Agent, for an invention for—"An improvement in smoothing irons."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                        |
| BELLFORD.<br>7th October 1852.            | 287. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, in the City of London, Patent Agent, for an invention for—"Improvements in steam boilers."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                            |
| WALLER.<br>7th October 1852.              | 288. AUGUSTUS WALLER, of London, but now residing at Bonn, on the Rhine, in the Kingdom of Prussia, Doctor of Medicine, for an invention for—"Improvements in the means of measuring or ascertaining the quantity of alcohol and other substances in brandy, wine, beer, and other liquids."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                                                                 |
| TATHAM.<br>CHEETHAM.<br>7th October 1852. | 289. JOHN TATHAM and DAVID CHEETHAM, of Rochdale, in the County of Lancaster, Machine Makers, for an invention for—"Improvements in rollers or bosses used for drawing or conveying textile materials and fabrics." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                   |
| HORSFIELD.<br>7th October 1852.           | 290. WILLIAM HORSFIELD, of Swillington Mills, near Leeds, in the County of York, Miller, for an invention for—"Improvements in splitting, crushing, and grinding corn, seeds, grain, minerals, or other substances." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                  |
| LYONS.<br>7th October 1852.               | 291. MORRIS LYONS, of Birmingham, in the County of Warwick, Chemist, for an invention for—"Certain improvements in coating the surfaces of iron." <i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                                               |
| RAINBIRD.<br>7th October 1852.            | 292. SAMUEL RAINBIRD, of Norwich, in the County of Norfolk, Builder, for an invention for—"Improvements in grappling and raising sunken vessels and other submerged bodies, and in apparatus for that purpose." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                       |
| LITTLE.<br>7th October 1852.              | 293. JOHN LITTLE, of Glasgow, in the County of Lanark, North Britain, Ironmonger, for an invention for—"Improvements in ash-pans for fire-grates, stoves, and fire places." <i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                     |
| THOMSON.<br>7th October 1852.             | 294. MITCHEL THOMSON, of Plymouth, in the County of Devon, Surgeon in the Royal Navy, for an invention for—"Improvements in lamps, and in the production of artificial light." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                        |
| WARD.<br>7th October 1852.                | 295. PETER WARD, of Oldbury, in the County of Worcester, for an invention for—"Improvements in the manufacture of sal-ammoniac, and obtaining salts of ammonia." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                      |
| TRUEMAN.<br>7th October 1852.             | 296. ALFRED TRUEMAN, of Swansea, in the County of Glamorgan, Manager of Copper Smelting Works, for an invention for—"Improvements in obtaining copper and other metals from ores or matters containing them." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                         |
| Kent.<br>7th October 1852.                | 297. ALFRED KENT, of Chichester, in the County of Sussex, for an invention for—"Improvements in glazing." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                             |
| HUGHES.<br>8th October 1852.              | 298. EDWARD JOSEPH HUGHES, of Manchester, in the County of Lancaster, Patent Agent, for an invention for—"An improved method of purifying and concentrating the colouring matter of madder, munjeet, and spent madder."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                      |
| PASCALL.<br>8th October 1852.             | 299. THOMAS PASCALL, of Norwood, in the County of Surrey, Tile Manufacturer, for an invention for—"Improvements in ridge tiles and roofing." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                          |
| CRESTADORO.<br>8th October 1852.          | 300. PROFESSOR ANDREW CRESTADORO, of Genoa, in Italy, but now resident in Adelphi Place, Salford, in the County of Lancaster, for an invention for—"Certain improvements in impulsoria, or machinery for applying animal power to railways, waterways, and common roads, and to other mechanical purposes; part of which improvements relate to railways and other carriages, to buffers, springs, breaks, and chains, and in the propelling vessels across liquid elements." <i>Complete specification; Letters Patent sealed.</i> |



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| SMITH.<br>8th October 1852.                    | 301. SAMUEL SMITH, of Swinton, near Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Certain improvements in looms for weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                          |
| TOWNLEY.<br>8th October 1852.                  | 302. WILLIAM TOWNLEY, of No. 2, Bartlett's Buildings, Holborn Hill, in the City of London, Engineer, for an invention for—"Improved machinery or apparatus for watering and flushing streets, squares, courts, and other localities."<br><i>Letters Patent sealed.</i>                                                                                                                                                |
| TILLETT.<br>8th October 1852.                  | 303. GEORGE TILLETT, Gentleman, of London, for an invention for—"Certain improvements in bedsteads."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                           |
| PATERSON.<br>8th October 1852.                 | 304. JOHN PATERSON, of Wood Street, in the City of London, Manufacturer, for an invention for—"Improvements in buckles or fastenings."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                      |
| TYLER.<br>8th October 1852.                    | 305. JOAN TALBOT TYLER, of Mount Street, Grosvenor Square, in the County of Middlesex, Hatter, for an invention for—"Improvements in hats, and in the preparation of plush or other covering used in the manufacture of hats."<br><i>Letters Patent sealed.</i>                                                                                                                                                       |
| TYLER.<br>8th October 1852.                    | 306. JOHN TALBOT TYLER, of Mount Street, in the County of Middlesex, Hatter, for an invention for—"Improvements in velouring-machines, or machines used by hatters for causing the covering of hats to adhere to the body, and for polishing the nap of hats."<br><i>Provisional protection only.</i>                                                                                                                 |
| ENNIS.<br>8th October 1852.                    | 307. GEORGE ENNIS, of Jersey, Iron and Brass Founder, and Machinist, for an invention for—"Improvements in dredging-machines."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                 |
| LEWTHWAITE.<br>8th October 1852.               | 308. JOHN LEWTHWAITE, of Halifax, in the County of York, Gentleman, for an invention for—"Improvements in cards and tickets, and in machinery for cutting, printing, numbering, and marking cards, tickets, and paper."<br><i>Letters Patent sealed.</i>                                                                                                                                                              |
| YULE.<br>8th October 1852.                     | 309. JAMES YULE, of St. Luke's Terrace, in the City of Gloucester, Mechanician, for an invention for—"An improved arrangement of sawing-machinery."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                  |
| NEWTON.<br>8th October 1852.                   | 310. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of hydraulic rams."— <i>A communication from Thomas Hanson, of New York.</i><br><i>Letters Patent sealed.</i>                                                                                                                            |
| BELLFORD.<br>9th October 1852.                 | 311. AUGUSTE EDOUARD LORADOUX BELLFORD, of No. 16, Castle Street, Holborn, in the City of London, Patent Agent, for an invention for—"Improvements in apparatus for manufacturing soda-water and other aerated liquids."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                    |
| BIRD.<br>9th October 1852.                     | 312. JAMES BIRD, of No. 16, Orchard Street, Portman Square, in the County of Middlesex, Gentleman, for an invention for—"A new manufacture of cement."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                         |
| EGAN.<br>9th October 1852.                     | 313. JOHN EGAN, of William Street, in the County of the City of Limerick, for an invention for—"A self-acting flax scutching and hackling machine, with horizontal blades or hackles, an incline plane on which flax-holders move, the application of the fan by a current of air to press flax against scutching blades or hackles, and spring catch flax-holders, as per drawing."<br><i>Letters Patent sealed.</i> |
| HUSBAND.<br>9th October 1852.                  | 314. RICHARD HUSBAND, of Manchester, in the County of Lancaster, Hat Manufacturer, for an invention for—"Certain improvements in weaving hat-plush and other textile fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                       |
| CLARK.<br>CLARK.<br>9th October 1852.          | 315. ALEXANDER CLARK, of Gate Street, Lincoln's Inn Fields, in the County of Middlesex, Engineer, and PATRICK CLARK, of the same place, Engineer, for an invention for—"Improvements in the manufacture of shutters, doors, and windows."<br><i>Letters Patent sealed.</i>                                                                                                                                            |
| BURQ.<br>9th October 1852.                     | 316. ANTOINE BURQ, of Paris, Chemist, for an invention for—"Certain instruments, apparatus, and articles for the application of electro-galvanic and magnetic action for medical purposes."<br><i>Provisional protection only.</i>                                                                                                                                                                                    |
| SCHOLFIELD.<br>PRITCHARD.<br>9th October 1852. | 317. WILLIAM SCHOLFIELD, Engineer, and JOSEPH PRITCHARD, Boiler-Maker, both of Oldham, in the County of Lancaster, for an invention for—"Improvements in steam-boilers."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                             |



MADDICK.  
9th October 1852.

318. WILLIAM MADDICK, of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"An improved method of extracting and concentrating by evaporation the coloring and other principles from all substances in which they are contained, and of thoroughly exhausting the same."

*Provisional protection only.*

JOHNSON.  
9th October 1852.

319. JAMES JOHNSON, of Worsley, in the County of Lancaster, Gentleman, for an invention for—"Improvements in heating, ventilating, and sewerage cottages or dwellinghouses."

*Letters Patent sealed.*

SMITH.  
SMITH.  
9th October 1852.

320. JOHN and WILLIAM SMITH, both of Manchester, in the County of Lancaster, Dyers and Finishers, for an invention for—"Improvements in the method or process of dyeing woven or textile fabrics certain colors, and in machinery or apparatus employed therein."

*Provisional protection only.*

HARDACRE.  
9th October 1852.

321. SAMUEL HARDACRE, of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery or apparatus for blowing, scutching, opening, cleaning, and sorting cotton-wool and other fibrous substances, parts of which improvements are applicable to other purposes."

*Letters Patent sealed.*

GENT.  
SMITH.  
9th October 1852.

322. GEORGE GENT, of Northampton, in the County of Northampton, Grocer, and SAMUEL SMITH, of the same place and county, Agricultural Implement Maker, for an invention for—"A fruit cleaning and dressing machine."

*Letters Patent sealed.*

ROUSSEAU.  
9th October 1852.

323. JEAN JEMOT ROUSSEAU, of Castle Street, Leicester Square, in the County of Middlesex, Chemist, for an invention for—"Improvements in inlaying and ornamenting metal plates to be used for door-plates, sign-plates, and other purposes to which such inlaid or ornamented plates may be applicable."

*Provisional protection only.*

RESTELL.  
9th October 1852.

324. THOMAS RESTELL, of the Strand, in the City of Westminster, Watchmaker, for an invention for—"Certain improvements in chronometers, watches, and clocks, part of which improvements is applicable to roasting-jacks."

*Letters Patent sealed.*

JOHNSON.  
9th October 1852.

325. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in composing and distributing type."—*A communication.*

*Letters Patent sealed.*

SIEMENS.  
9th October 1852.

326. CHARLES WILLIAM SIEMENS, of Adelphi Terrace, in the County of Middlesex, for an invention for—"Improvements in engines to be worked by steam and other fluids."

*Letters Patent sealed.*

LAVATER.  
9th October 1852.

327. JONAS LAVATER, of No. 19, Rue Grenelle St. Honoré, in the City of Paris, in France, for an invention for—"Improvements in the apparatus for measuring the inclination of plane surfaces, and angles formed or to be formed thereon."—*A communication.*

*Letters Patent sealed.*

HINE.  
9th October 1852.

328. WILLIAM HINE, of Derby, Corn Factor, for an invention for—"Improvements in machinery applicable to paddle-wheels, wind-mills, and other useful purposes."

*Provisional protection only.*

BELLFORD.  
11th October 1852.

329. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, in the City of London, Patent Agent, for an invention for—"Improvements in the construction of revolving or repeating fire-arms."—*A communication.*

*Letters Patent sealed.*

MOORHOUSE.  
11th October 1852.

330. HENRY MOORHOUSE, of Denton, in the County of Lancaster, Tailor, for an invention for—"Improvements in machinery or apparatus for cleaning woollen, cotton, or linen rags and waste, which machinery or apparatus is applicable to cleaning and tempering clay or other similar purposes."

*Letters Patent sealed.*

LAIDLAW.  
11th October 1852.

331. DAVID LAIDLAW, of Glasgow, in the County of Lanark, North Britain, Iron and Brass Founder, for an invention for—"Improvements in the manufacture or production of gas-burners."

*Letters Patent sealed.*

BARNETT.  
11th October 1852.

332. GEORGE BARNETT, of No. 7, Jewin Street, in the Parish of Saint Botolph, in the City of London, in the County of Middlesex, for an invention for—"Improvements in packing and labelling of needles for commerce." *Provisional protection NOT granted.*

SEARBY.  
11th October 1852.

333. GEORGE SEARBY, of No. 9, Markham Street, Chelsea, in the County of Middlesex, for an invention for—"Improvements in machinery for cutting, carving, and engraving wood, stone, metal, and other suitable materials." *Provisional protection only.*

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| SEARBY.<br>11th October 1852.                 | 334. GEORGE SEARBY, of No. 9, Markham Street, Chelsea, in the County of Middlesex, for an invention for—"The cure of smoky chimneys, and the prevention of accumulation of soot in flues."<br><i>Provisional protection only.</i>                                                                     |
| COCHRAN.<br>11th October 1852.                | 335. ROBERT COCHRAN, of Glasgow, in the County of Lanark, Potter, for an invention for—"Improvements in kilns."<br><i>Letters Patent sealed.</i>                                                                                                                                                      |
| BARKER.<br>11th October 1852.                 | 336. CHARLES MATHEW BARKER, of 22, Portsmouth Place, Kennington Lane, in the County of Surrey, for an invention for—"Improvements in sawing wood."<br><i>Letters Patent sealed.</i>                                                                                                                   |
| M <sup>c</sup> FARLANE.<br>11th October 1852. | 337. HENRY M <sup>c</sup> FARLANE, of 8, Lawrence Lane, in the City of London, for an invention for—"Improvements in stoves or fireplaces."<br><i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                               |
| LAMBERT.<br>11th October 1852.                | 338. ROBERT LAMBERT, of 13, Goree Piazza, Liverpool, in the County of Lancaster, for an invention for—"Improvements in tents."<br><i>Letters Patent sealed.</i>                                                                                                                                       |
| BRAE.<br>11th October 1852.                   | 339. ANDREW EDMUND BRAE, of Leeds, in the County of York, Gentleman, for an invention for—"Improvements in the means of or apparatus for exhibiting numbers, letters, dates, or other devices for various purposes."<br><i>Provisional protection only.</i>                                           |
| DEWY.<br>11th October 1852.                   | 340. HENRY DEWY, of Taymouth Terrace, Philpot Street, Commercial Road, Stepney, in the County of Middlesex, Nautical Teacher, for an invention for—"Improvements in disengaging ships' boats from their suspending chains or ropes."<br><i>Provisional protection only.</i>                           |
| SIMONS.<br>12th October 1852.                 | 341. EDWARD SIMONS, of Birmingham, in the County of Warwick, Tallow Chandler, for an invention for—"Improvements in lamps."<br><i>Letters Patent sealed.</i>                                                                                                                                          |
| MICHEL.<br>12th October 1852.                 | 342. FRANÇOIS ALEXANDRE VICTOR MICHEL, of 19, Leicester Square, London, in the County of Middlesex, Typographer, for an invention for—"Stereotyping in copper by the galvanoplasty."<br><i>Provisional protection only.</i>                                                                           |
| COUCHMAN.<br>12th October 1852.               | 343. JOHN WILLIAM COUCHMAN, of No. 8, Prince's Terrace, Pultney Street, Barnsbury Road, in the County of Middlesex, for an invention for—"The closing and hanging of swing and other doors by means of the spring and pivots."<br><i>Provisional protection only.</i>                                 |
| PERKES.<br>12th October 1852.                 | 344. SAMUEL PERKES, Civil Engineer, 1, Walbrook, City, London, for an invention for—"Improvements in certain apparatuses and machines for the production and treatment of mineral and other substances, and part of which are applicable for other useful purposes."<br><i>Letters Patent sealed.</i> |
| PERKES.<br>12th October 1852.                 | 345. SAMUEL PERKES, Civil Engineer, 1, Walbrook, City, London, for an invention for—"Certain improvements in navigable vessels and propellers."<br><i>Provisional protection only.</i>                                                                                                                |
| PERKES.<br>12th October 1852.                 | 346. SAMUEL PERKES, Civil Engineer, 1, Walbrook, City, London, for an invention for—"Certain improvements in mines, buildings, and sewerage, for effecting sanitary purposes, and treating the produce therefrom."<br><i>Letters Patent sealed.</i>                                                   |
| BELLFORD.<br>12th October 1852.               | 347. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, Patent Agent, for an invention for—"Improvements in sewing cloth and other materials."<br><i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                             |
| HUMPHREYS.<br>12th October 1852.              | 348. JOSEPH HUMPHREYS, of Howard Street, Norfolk Street, Strand, in the County of Middlesex, Designer, for an invention for—"Improvements in metallic and other designs for exhibition in or on shop and other windows and places."<br><i>Provisional protection only.</i>                            |
| WHARTON.<br>12th October 1852.                | 349. EMANUEL WHARTON, of Birmingham, in the County of Warwick, Civil Engineer, for an invention for—"Certain improvements in metallic bedsteads."<br><i>Provisional protection only.</i>                                                                                                              |
| CHESNEAU.<br>12th October 1852.               | 350. AUGUSTE CHESNEAU, of Welford Place, Leicester, in the County of Leicester, Oil Merchant, for an invention for—"The manufacture of an indestructible paving."<br><i>Complete specification; protection for SIX months only.</i>                                                                   |
| VITTRANT.<br>12th October 1852.               | 351. LOUIS CONSTANT ALEXANDRE VITTRANT, of Cambrai, in the Republic of France, Advocate, for an invention of—"Improvements in the preservation of vegetable and animal matters."<br><i>Provisional protection only.</i>                                                                               |



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| DAWSON.<br>12th October 1852.          | 352. THOMAS DAWSON, of Melton Street, in the County of Middlesex, Mechanist, for an invention for—"Improvements in the means of cutting pile or terry fabrics."— <i>Partly a communication.</i><br><i>Letters Patent sealed.</i>                                                                                              |
| LACEY.<br>12th October 1852.           | 353. THOMAS LACEY, of Grafton Street, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus for raising liquids, and in joints for uniting india-rubber and other like flexible tubing." <i>Letters Patent sealed</i>                                                                         |
| WALKER.<br>12th October 1852.          | 354. JOSEPH WALKER, of Dover, in the county of Kent, Merchant, for an invention for—"Improvements in machinery for crushing and bruising malt, grain, and seeds."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                   |
| WARREN.<br>12th October 1852.          | 355. PETER WARREN, of Stratmore Terrace, Shadwell, in the County of Middlesex, Paper Maker, for an invention for—"An improved material applicable to many purposes for which papier-mâché and gutta-percha have been or may be used."<br><i>Letters Patent sealed.</i>                                                        |
| ROBINSON.<br>12th October 1852.        | 356. JOSEPH ROBINSON, of Southampton, in the County of Hants, Superintendent Joiner to the Peninsular and Oriental Steam Company, for an invention for—"Improvements in ventilators." <i>Letters Patent sealed.</i>                                                                                                           |
| DAFT.<br>12th October 1852.            | 357. THOMAS BARNABAS DAFT, of the Isle of Man, for an invention for—"Improvements in inland conveyance." <i>Letters Patent sealed.</i>                                                                                                                                                                                        |
| SMITH.<br>12th October 1852.           | 358. WILLIAM H. SMITH, of the County of Montgomery and State of Pennsylvania, America, Clergyman, for an invention for—"Improvements in the manufacture of lava ware." <i>Letters Patent sealed.</i>                                                                                                                          |
| GODEFROY.<br>12th October 1852.        | 359. LÉON GODEFROY, Manufacturer, of Paris, in the Republic of France, for an invention for—"Improvements in covering or packing rollers for printing fabrics." <i>Letters Patent sealed.</i>                                                                                                                                 |
| LLOYD.<br>13th October 1852.           | 360. GEORGE LLOYD, of the parish of Budbrooke, in the County of Warwick, Doctor of Medicine, for an invention for—"An improvement or improvements in the manufacture of paper." <i>Letters Patent sealed</i>                                                                                                                  |
| OATES.<br>13th October 1852.           | 361. JOSEPH PIMLOTT OATES, of Lichfield, in the County of Stafford, Surgeon, for an invention for—"An improved spring or improved springs for carriages." <i>Letters Patent sealed.</i>                                                                                                                                       |
| TATHAM.<br>13th October 1852.          | 362. WILLIAM TATHAM, of Rochdale, in the County of Lancaster, Machine Maker, for an invention for—"An improved mode or improved modes of preventing accidents on railways." <i>Letters Patent sealed.</i>                                                                                                                     |
| CARTER.<br>13th October 1852.          | 363. JOHN CARTER, of Meltham, in the Parish of Almondbury, in the County of York, Spinner, for an invention for—"Improvements in the manufacture of woven fabrics." <i>Letters Patent sealed.</i>                                                                                                                             |
| SMITH.<br>13th October 1852.           | 364. MATTHEW SMITH, of Over Darwen, in the County of Lancaster, Manager, for an invention for—"Improvements in machinery for weaving and printing." <i>Letters Patent sealed; no specification filed.</i>                                                                                                                     |
| LLOYD.<br>13th October 1852.           | 365. EDWARD LLOYD, of Dee Valley, near Corwen, Merionethshire, North Wales, Engineer, for an invention for—"Certain improvements in steam-engines, the whole or part of which improvements are applicable to other motive engines." <i>Letters Patent sealed.</i>                                                             |
| NASH.<br>13th October 1852.            | 366. JOSEPH NASH, Chemist, of No. 3, Thames Parade, Pimlico, in the County of Middlesex, for an invention for—"The treatment and refining of sugar." <i>Letters Patent sealed.</i>                                                                                                                                            |
| FONTAINE-MOREAU.<br>13th October 1852. | 367. PETER ARMAND LE COMTE DE FONTAINE-MOREAU, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Agent for obtaining Patents of Inventions, for an invention for—"A certain chemical combination for the silicatisation of calcareous matters."— <i>A communication.</i> <i>Letters Patent sealed.</i> |
| STEPHENS.<br>13th October 1852.        | 368. WILLIAM WALKER STEPHENS, of Logie Green, Canonmills, Edinburgh, in the County of Edinburgh, for an invention for—"The application of retorts in gas ovens or other ovens to a process of improving iron, and converting iron into steel." <i>Provisional protection only.</i>                                            |

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| SUTTIE.<br>13th October 1852.                 | 369. THOMAS SUTTIE, of Greenock, in the County of Renfrew, North Britain, Smith, for an invention for—"Improvements in roasting apparatus."<br><i>Letters Patent sealed.</i>                                                                                                                                                      |
| PINKNEY.<br>13th October 1852.                | 370. ROBERT PINKNEY, of 26, Long Acre, in the County of Middlesex, Ink Manufacturer, for an invention for—"Improvements in cases for holding marking materials."<br><i>Letters Patent sealed.</i>                                                                                                                                 |
| M <sup>C</sup> FARLANE.<br>13th October 1852. | 371. WALTER M <sup>C</sup> FARLANE, of Glasgow, in the County of Lanark, North Britain, Iron-founder, for an invention for—"Improvements in water-closets."<br><i>Letters Patent sealed.</i>                                                                                                                                      |
| WILLIAMS.<br>13th October 1852.               | 372. RICHARD WILLIAMS, of Machen, in the County of Monmouth, Engineer, for an invention for—"An improvement or improvements in pumps or pumping."<br><i>Provisional protection only.</i>                                                                                                                                          |
| COQUERELLE.<br>13th October 1852.             | 373. PIERRE JOSEPHE ROUSSET COQUERELLE, Civil Engineer, of Paris, in the Republic of France, for an invention for—"The combination of certain chymical agents for the replacing of indigo and other blues, which combination I call Rousset blue."<br><i>Provisional protection only.</i>                                         |
| HILL.<br>13th October 1852.                   | 374. CHRISTOPHER HILL, of the Great Western Railway, Swindon, in the County of Wilts, for an invention for—"Improvements in the manufacture of lubricating matters."<br><i>Letters Patent sealed.</i>                                                                                                                             |
| ARNEY.<br>13th October 1852.                  | 375. GERARD ANDREW ARNEY, of Mitcham, in the County of Surrey, Gelatine Manufacturer, for an invention for—"Improvements in coating or enamelling pictures, prints, paper, and other surfaces."<br><i>Letters Patent sealed.</i>                                                                                                  |
| M <sup>C</sup> FARLANE.<br>13th October 1852. | 376. HENRY M <sup>C</sup> FARLANE, of Lawrence Lane, in the City of London, Merchant, for an invention for—"Improvements in constructing metal beams or girders."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                       |
| ROBERTS.<br>13th October 1852.                | 377. MARTYN JOHN ROBERTS, of Woodbank, Gerrard's Cross, in the County of Bucks, Gentleman, for an invention for—"Improvements in galvanic batteries and in obtaining chemical products therefrom."<br><i>Letters Patent sealed.</i>                                                                                               |
| LUMB.<br>13th October 1852.                   | 378. PRESTON LUMB, of Vauxhall, in the County of Surrey, Engineer, for an invention for—"Improvements in apparatus for cleansing coal."<br><i>Letters Patent sealed.</i>                                                                                                                                                          |
| LEE.<br>13th October 1852.                    | 379. JOHN HENRY LEE, of 31, Northampton Square, in the County of Middlesex, Ornamental Sawyer, for an invention for—"Improvements in sawing."<br><i>Letters Patent sealed.</i>                                                                                                                                                    |
| HELY.<br>14th October 1852.                   | 380. ALFRED AUGUSTUS DE REGINALD HELY, of Cannon Row, Westminster, in the County of Middlesex, Civil Engineer, for an invention for—"An improved waiter or tray."<br><i>Letters Patent sealed.</i>                                                                                                                                |
| BROWN.<br>COX.<br>14th October 1852.          | 381. THOMAS BROWN, of the Ebbw Vale Iron Works, Monmouthshire, and JOHN COX, of the Patent Coke Works, St. Philip's, Bristol, for an invention for—"Certain improvements in the mode of heating retorts or ovens for the manufacture of coke gas and other distillatory products of coal."<br><i>Provisional protection only.</i> |
| CHISHOLM.<br>14th October 1852.               | 382. WILLIAM CHISHOLM, of Holloway, in the County of Middlesex, Chemist, for an invention for—"Improvements in the purification of gas, and the obtention of certain products during the process of such purification."<br><i>Complete specification; Letters Patent sealed.</i>                                                  |
| GRANT.<br>14th October 1852.                  | 383. DONALD GRANT, late of Her Majesty's Ordnance Department, of Luton Place, Greenwich, in the County of Kent, Esquire, for an invention for—"Improvements in the means of applying the heat derived from the combustion of gas."<br><i>Letters Patent sealed.</i>                                                               |
| TUCK.<br>14th October 1852.                   | 384. JOSEPH HENRY TUCK, of Pall Mall, in the County of Middlesex, Engineer, for an invention for—"Improvements in stuffing boxes, and in packing to be used in stuffing-boxes, bearings, pistons, and valves."<br><i>Letters Patent sealed.</i>                                                                                   |
| ROSSI.<br>14th October 1852.                  | 385. LOUIS ROSSI, of Regent Street, in the County of Middlesex, Perfumer, for an invention for—"An improved manufacture of muffs, boas, tippets, and other like articles."<br><i>Provisional protection only.</i>                                                                                                                 |



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| <p>DUNCAN.<br/>14th October 1852.</p> <p>MAJOR.<br/>14th October 1852.</p> <p>SMITH.<br/>14th October 1852.</p> <p>WEBSTER.<br/>14th October 1852.</p> <p>SWINDELLS.<br/>NICHOLSON.<br/>14th October 1852.</p> <p>BOUTAREL.<br/>14th October 1852.</p> <p>BURCH.<br/>15th October 1852.</p> <p>BURCH.<br/>15th October 1852.</p> <p>NICHOLLS.<br/>15th October 1852.</p> <p>GEDGE.<br/>15th October 1852.</p> <p>LOCHHEAD.<br/>PASSENGER.<br/>15th October 1852.</p> <p>MOSELEY.<br/>15th October 1852.</p> <p>TURCK.<br/>15th October 1852.</p> <p>HOPKINSON.<br/>15th October 1852.</p> <p>PINCOFFS.<br/>SCHUNCK.<br/>15th October 1852.</p> <p>NEWTON.<br/>15th October 1852.</p> | <p>386. JOHN DUNCAN, of Dundee, in the County of Forfar, North Britain, Manufacturer, for an invention for—"Improvements in the treatment or manufacture of textile materials."<br/><i>Provisional protection only.</i></p> <p>387. JOSEPH MAJOR, of No. 13, Elizabeth Place, Ball's Pond Road, near Kingsland Gate, in the Parish of Saint Mary, Islington, in the County of Middlesex, for an invention for—"Removing spavins, ringbones, curbs, splents, and other unnatural ossifications and humours, from horses, which invention he names 'Major's celebrated British remedy.'"<br/><i>Letters Patent sealed.</i></p> <p>388. ALSOP SMITH, of Westminster, in the County of Middlesex, for an invention for—"Improvements in the manufacture of fire-wood."<br/><i>Letters Patent sealed.</i></p> <p>389. JAMES WEBSTER, of Leicester, in the County of Leicester, Engineer, for an invention for—"Improvements in the construction of springs."<br/><i>Letters Patent sealed.</i></p> <p>390. JOHN SWINDELLS, of Pollard Street, Manchester, Gentleman, and WILLIAM NICHOLSON, of Manchester, Gentleman, for an invention for—"Improvements in obtaining oxygen gas, and applying it in the manufacture of various acids and chlorine for oxydating metallic solutions, and for ageing and raising various colouring matters."<br/><i>Letters Patent sealed.</i></p> <p>391. EUGÈNE ANDRÉ BOUTAREL, Manufacturer, of Paris, in the French Republic, for an invention for—"Improvements in ornamenting or applying color to fabrics."<br/><i>Provisional protection only.</i></p> <p>392. JOSEPH BURCH, of Crag Hall, near Macclesfield, in the County of Chester, Carpet Manufacturer, for an invention for—"Certain improvements in baths and bathing."<br/><i>Letters Patent sealed.</i></p> <p>393. JOSEPH BURCH, of Crag Hall, near Macclesfield, in the County of Chester, Carpet Manufacturer, for an invention for—"Certain improvements in building ships and vessels, for the purpose of saving lives and property in cases of shipwreck or fire at sea."<br/><i>Letters Patent sealed.</i></p> <p>394. ROBERT HAWKINS NICHOLLS, of Bedford, in the County of Bedford, Gentleman, for an invention for—"Horse-hoeing land."<br/><i>Letters Patent sealed.</i></p> <p>395. JOHN GEDGE, of 4, Wellington Street South, Strand, in the County of Middlesex, Patent Agent, for an invention for—"An improved stove or heating apparatus."<br/><i>A communication. Provisional protection only.</i></p> <p>396. JAMES LOCHHEAD, of Kennington, in the County of Surrey, Manufacturer and ROBERT PASSENGER, of Union Street, Southwark, in the same County, Merchant, for an invention for—"Certain improvements in the manufacture of glass and other vitrified substances, and in ornamenting and annealing the same."<br/><i>Letters Patent sealed.</i></p> <p>397. HENRY MOSELEY, of Wandsworth, in the county of Surrey, for an invention for—"A machine to be driven by the pressure of a fluid; or to displace a fluid; or to measure it."<br/><i>Letters Patent sealed; no specification filed.</i></p> <p>398. HERMAN TURCK, of Broad Street Buildings, in the City of London, Merchant, for an invention for—"Improvements in propelling vessels."<br/><i>Letters Patent sealed.</i></p> <p>399. JOSEPH HOPKINSON, the younger, of Huddersfield, in the County of York, Engineer, for an invention for—"Improvements in steam-boilers."<br/><i>Letters Patent sealed.</i></p> <p>400. SIMON PINCOFFS, of Manchester, in the County of Lancaster, Manufacturing Chemist, and HENRY EDWARD SCHUNCK, of Rochdale, in the county of Lancaster, Doctor of Philosophy, for an invention for—"Improvements in the treatment of madder and other plants of the same species, and of their products, for the purpose of obtaining dyeing materials."<br/><i>Letters Patent sealed.</i></p> <p>401. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in washing and amalgamating gold and other metals."<br/><i>A communication from Abia-ther F. Potter, of Boston, in the United States of America. Letters Patent sealed.</i></p> |
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| BRANFORD.<br>15th October 1852.            | 402. JOHN WILLIAM BRANFORD, of Green's Terrace, Rotherhithe, in the County of Surrey, Gentleman, for an invention for—"Improvements in fire-escapes."<br><i>Provisional protection only.</i>                                                                                                  |
| DRIVER.<br>WELLS.<br>15th October 1852.    | 403. JEREMIAH DRIVER, of Keighley, in the county of York, Moulder, and JOHN WELLS, of Bradford, in the County of York, Moulder, for an invention for—"Improvements in moulding in sand and loom, for the casting of iron and other metals."<br><i>Letters Patent sealed.</i>                  |
| STEVENSON.<br>15th October 1852.           | 404. WILLIAM STEVENSON, of Preston, in the County of Lancaster, Manager, for an invention for—"Improvements in west forks for power-looms."<br><i>Letters Patent sealed.</i>                                                                                                                  |
| HEWSON.<br>15th October 1852.              | 405. ALLAN EDWIN HEWSON, of Birmingham, in the County of Warwick, Japanner, for an invention for—"Certain improved modes or processes for making buttons, beads, and other ornaments of dress."<br><i>Letters Patent sealed.</i>                                                              |
| BLAIR.<br>15th October 1852.               | 406. ANDREW BLAIR, of Mary Hill, in the County of Lanark, North Britain, Calico Printer, for an invention for—"Improvements in printing or ornamenting fabrics."<br><i>Letters Patent sealed.</i>                                                                                             |
| WARING.<br>15th October 1852.              | 407. CHARLES HENRY WARING, of Neath Abbey, in the County of Glamorgan, Ironmaster, for an invention for—"Improvements in the cutting and working or quarrying of coal, stone, shale, clay, and other similar substances, and in machinery for that purpose."<br><i>Letters Patent sealed.</i> |
| MATTHIAS.<br>BAILEY.<br>15th October 1852. | 408. WILLIAM JAMES MATTHIAS and THOMAS BAILEY, of Clerkenwell, in the County of Middlesex, Clockmakers, for an invention for—"Improvements in clocks and watches."<br><i>Letters Patent sealed.</i>                                                                                           |
| LEIGH.<br>16th October 1852.               | 409. EVAN LEIGH, of Manchester, in the County of Lancaster, Cotton Spinner, for an invention for—"Certain improvements in machinery or apparatus for carding cotton and other fibrous materials."<br><i>Letters Patent sealed.</i>                                                            |
| FAULKNER.<br>16th October 1852.            | 410. LOT FAULKNER, of Cheadle, in the County of Chester, Machinist, for an invention for—"Certain improvements in the method of obtaining motive-power."<br><i>Provisional protection only.</i>                                                                                               |
| DRIEU.<br>16th October 1852.               | 411. JEROME ANDRÉ DRIEU, of Manchester, in the County of Lancaster, Machinist, for an invention for—"Certain improvements in weaving cloth to be employed in the manufacture of stays."<br><i>Provisional protection only.</i>                                                                |
| HOWARD.<br>16th October 1852.              | 412. JOHN HOWARD, of Bolton, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in the construction of steam-boilers or steam-generators."<br><i>Letters Patent sealed; no specification filed.</i>                                                             |
| JUDKINS.<br>16th October 1852.             | 413. CHARLES TIOT JUDKINS, of Britannia Works, Manchester, in the County of Lancaster, for an invention for—"Improvements in machinery or apparatus for sewing or stitching."<br><i>Letters Patent sealed.</i>                                                                                |
| WOODS.<br>16th October 1852.               | 414. JOHN WOODS, of Rainhill, in the County of Lancaster, Tool Maker, for an invention for—"Improvements in screw-stocks."<br><i>Provisional protection only.</i>                                                                                                                             |
| JOHNSON.<br>16th October 1852.             | 415. WILLIAM BECKETT JOHNSON, of Manchester, in the County of Lancaster, Manager for Messrs. Ormerod and Son, Engineers and Iron-founders, for an invention for—"Improvements in stationary steam-engines."<br><i>Letters Patent sealed.</i>                                                  |
| ATKIN.<br>GIRLING.<br>16th October 1852.   | 416. ISAAC ATKIN, of Basford, in the County of Nottingham, Lace Manufacturer, and CHARLES GIRLING, of Radford, in the County of Nottingham, Manufacturer, for an invention for—"An improved machine for the manufacture of looped fabrics."<br><i>Provisional protection only.</i>            |
| PUIS.<br>16th October 1852.                | 417. PIERRE AUGUSTIN PUIS, of Paris, France, but now temporary of 4, South Street, Finsbury, in the County of Middlesex, Gentleman, for an invention for—"An improved chain or cable, and an apparatus employed therewith for certain applications."<br><i>Letters Patent sealed.</i>         |
| JOHNSON.<br>16th October 1852.             | 418. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of sugar."— <i>A communication.</i><br><i>Provisional protection only.</i>                                  |



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| JOHNSON.<br>16th October 1852.               | 419. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture and applications of hyposulphite and similar compounds of zinc."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                             |
| YORK.<br>16th October 1852.                  | 420. JOHN OLIVER YORK, of Paris, Engineer, for an invention for—"Improvements in connecting and in fixing rails in railway chairs." <i>Letters Patent sealed.</i>                                                                                                                                                                                                        |
| REEVES.<br>18th October 1852.                | 421. CHARLES REEVES, junior, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of knives." <i>Letters Patent sealed.</i>                                                                                                                                                                    |
| TOVELL.<br>MANN.<br>18th October 1852.       | 422. GEORGE RANDFIELD TOVELL, of Mistley, and JOHN MANN, junior, Esquire, Justice of the Peace, of Colchester, both in the County of Essex, for an invention for—"Improvements in the construction of ships and other vessels." <i>Letters Patent sealed.</i>                                                                                                            |
| COTTAM.<br>18th October 1852.                | 423. SAMUEL FLETCHER COTTAM, of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in quarrying slate." <i>Letters Patent sealed.</i>                                                                                                                                                                                                 |
| JOHNSON.<br>18th October 1852.               | 424. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in drying, and in the machinery or apparatus to be used therein."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                  |
| ROBERTS.<br>18th October 1852.               | 425. WILLIAM ROBERTS, of Millwall, Poplar, Foreman to Messrs. Brown, Lenox, & Co, of Billiter Square, for an invention for—"Improvements in machinery for stopping and lowering cables and other chains." <i>Complete specification ; Letters Patent sealed.</i>                                                                                                         |
| LENOX.<br>ROBERTS.<br>18th October 1852.     | 426. GEORGE WILLIAM LENOX, of Billiter Square, in the City of London, Chain Cable Manufacturer, and WILLIAM ROBERTS, of Millwall, Poplar, Foreman to Messrs. Brown, Lenox, & Co, of Billiter Square aforesaid, for an invention for—"Improvements in machinery for raising and lowering cables and other chains." <i>Complete specification ; Letters Patent sealed.</i> |
| BELLFORD.<br>18th October 1852.              | 427. AUGUSTE EDOUARD LORADOUX BELLFORD, (Patent Agent,) of 16, Castle Street, Holborn, for an invention for—"Improvements in the manufacture of fuel, part of which improvements are applicable to the manufacture of gas and soda, and freeing metals from extraneous substances."— <i>A communication.</i> <i>Provisional protection only.</i>                         |
| CAMPBELL.<br>18th October 1852.              | 428. JOHN CAMPBELL, of Bowfield, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in the treatment or finishing of textile fabrics and materials." <i>Letters Patent sealed.</i>                                                                                                                                                    |
| HARCOURT.<br>HARCOURT.<br>18th October 1852. | 429. WILLIAM HARCOURT and JOSEPH HARCOURT, of Birmingham, in the County of Warwick, Brass-founders, for an invention for—"Certain improvements in the construction and manufacture of match-boxes." <i>Letters Patent sealed.</i>                                                                                                                                        |
| BROOMAN.<br>18th October 1852.               | 430. RICHARD ARCHIBALD BROOMAN, of the firm of J. C. Robertson & Co, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in vices." <i>Letters Patent sealed.</i>                                                                                                                                                             |
| HUGHES.<br>FIRMIN.<br>18th October 1852.     | 431. HENRY HUGHES and GEORGE FIRMIN, of Plough Road, Rotherhithe, in the County of Surrey, Manufacturers, for an invention for—"Improvements in the manufacture of lampblack, and in recovering from such manufacture a substance suitable for fuel." <i>Letters Patent sealed.</i>                                                                                      |
| HEYWOOD.<br>18th October 1852.               | 432. EDWIN HEYWOOD, of Glasburn, in the County of York, Foreman to Messrs. Bairstow, of Sutton Mills, Keighley, in the County of York, for an invention for—"Improvements in looms." <i>Letters Patent sealed.</i>                                                                                                                                                       |
| McLEOD.<br>18th October 1852.                | 433. JOHN LYONS McLEOD, of Mary-le-bone, in the County of Middlesex, Lieutenant in the Royal Navy, for an invention for—"Improvements in giving a metallic coating to iron ships' bottoms and other surfaces." <i>Provisional protection only.</i>                                                                                                                       |

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| GREATHEAD.<br>HILLIARD.<br>REYNOLDS.<br>19th October 1852. | 434. THOMAS WILLIAM GREATHEAD, of Dyer's Buildings, Holborn, in the City of London, Lithographer, JAMES HILLIARD, of Cow Cross, Tobacco Pipe Maker, and JOHN GEORGE REYNOLDS, of 10, Wharf, City Basin, City Road, Clay Merchant, both in the County of Middlesex, for an invention for—"Improved means of heating, cooking, and warming."<br><i>Provisional protection only</i> |
| GOODMAN.<br>19th October 1852.                             | 435. JOHN GOODMAN, of Hazel Grove, in the County of Chester, Doctor of Medicine, for an invention for—"An improved fountain pen."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                               |
| MOLE.<br>MOLE.<br>19th October 1852.                       | 436. ROBERT MOLE, of Birmingham, in the County of Warwick, Manufacturer, and ROBERT MOLE, junior, of Birmingham aforesaid, Manufacturer, for an invention for—"Improvements in the manufacture of swords and matchets."<br><i>Letters Patent sealed.</i>                                                                                                                         |
| JAMES.<br>19th October 1852.                               | 437. ARTHUR JAMES, of Redditch, in the County of Worcester, Manufacturer, for an invention for—"An improvement or improvements in needle cases or wrappers."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                    |
| HARCOURT.<br>HARCOURT.<br>19th October 1852.               | 438. JOSEPH HARCOURT and WILLIAM HARCOURT, of Birmingham, in the County of Warwick, Brass Founders, for an invention for—"The application of porcelain, glass, or earthenware, to articles in which or for which those materials have never heretofore been used."<br><i>Provisional protection only.</i>                                                                        |
| O'BYRNE.<br>DOWLING.<br>19th October 1852.                 | 439. MARTIN WALTER O'BYRNE and JOHN DOWLING, both of No. 17, Burr Street, in the County of Middlesex, Machinists, for an invention for—"A machine for cutting paper, millboard, leather, vellum, sheet metals, and other suitable materials for useful and ornamental purposes."<br><i>Letters Patent sealed.</i>                                                                |
| ALLMAN.<br>19th October 1852.                              | 440. FENNEL HERBERT ALLMAN, Civil and Consulting Engineer, of 16, Westbourne St, Hyde Park, in the County of Middlesex, for an invention for—"Certain improvements in the manufacture and construction of brushes."<br><i>Letters Patent sealed.</i>                                                                                                                             |
| KEALY.<br>19th October 1852.                               | 441. JOHN KEALY, of Oxford Street, in the County of Middlesex, Agricultural Implement Maker, for an invention for—"Improvements in machinery or apparatus for cutting or slicing roots."<br><i>Letters Patent sealed.</i>                                                                                                                                                        |
| NEWTON.<br>19th October 1852.                              | 442. WILLIAM NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved machine for separating ores, metals, and other heavy substances, from mud, sand, gravel, stones, and other impurities."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                               |
| CHISHOLM.<br>19th October 1852.                            | 443. WILLIAM CHISHOLM, of Holloway, in the County of Middlesex, Chemist, for an invention for—"Improvements in obtaining caustic, soda, and other substances, from the residues of articles used in the purification of gas."<br><i>Letters Patent sealed.</i>                                                                                                                   |
| BENDA.<br>19th October 1852.                               | 444. GABRIEL BENDA, of Basinghall Street, in the City of London, Merchant, for an invention for—"Improvements in apparatus for obtaining fire for smokers."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                     |
| GOTCH.<br>19th October 1852.                               | 445. GEORGE GOTCH, Mechanist, of King Street Terrace, Islington, in the County of Middlesex, for an invention for—"Certain improvements in transmitting intelligence upon railways."<br><i>Letters Patent sealed.</i>                                                                                                                                                            |
| BIRD.<br>19th October 1852.                                | 446. ROBERT BIRD, of Crewkerne, in the County of Somerset, for an invention for—"Improvements in the straining-webs of saddles."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                |
| GADD.<br>19th October 1852.                                | 447. GEORGE GADD, of Fisher Gate, in the Town and County of the Town of Nottingham, Engineer, for an invention for—"Improvements in apparatus for roasting coffee."<br><i>Letters Patent sealed.</i>                                                                                                                                                                             |
| ODAMS.<br>19th October 1852.                               | 448. JAMES ODAMS ( <i>Otams</i> ), of 2, Horton Villas, Camden Road, Holloway, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of manure."<br><i>Letters Patent sealed.</i>                                                                                                                                                         |
| JONES.<br>19th October 1852.                               | 449. JOHN JONES, of Sheffield, in the County of York, Manufacturer, for an invention for—"Improvements in handles for knives, razors, and other like instruments."<br><i>Letters Patent sealed.</i>                                                                                                                                                                              |



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| HEYES.<br>20th October 1852.                 | 450. GEORGE HEYES, of Blackburn, in the County of Lancaster, for an invention for—"Improvements in the manufacture of fancy woven or textile fabrics, and in the machinery or apparatus connected therewith."<br><i>Letters Patent sealed.</i>                                                                                         |
| BROWN.<br>20th October 1852.                 | 451. ROBERT BROWN, of Manchester, in the County of Lancaster, Gentleman, for an invention for—"Certain improvements in the method of ventilating buildings or apartments, and in the apparatus connected therewith."<br><i>Letters Patent sealed.</i>                                                                                  |
| CARNABY.<br>20th October 1852.               | 452. JOHN CARNABY, of No. 130, St. John Street, Clerkenwell, in the County of Middlesex, Gentleman, for an invention for—"Apparatus for turning, managing, and regulating the main taps of gas pipes laid on to houses or buildings at a part of the house or building distant from the main tap."<br><i>Letters Patent sealed.</i>    |
| ROBINSON.<br>20th October 1852.              | 453. FREDERICK RICHARDS ROBINSON, of Charlestown, in the State of Massachusetts and United States of America, for an invention for—"An improvement in the gridiron or instrument for cooking steak or other articles by broiling."<br><i>Complete specification ; Letters Patent sealed.</i>                                           |
| CLARKE.<br>GILBERT.<br>20th October 1852.    | 454. CHARLES CLARKE, of 43, Preston Street, Brighton, County of Sussex, Engineer, and JOHN GILBERT, of 10, Hyde Place, Hoxton, County of Middlesex, Plumber, for an invention for—"Improvements in the supply and distribution of water and other fluids."<br><i>Letters Patent sealed.</i>                                            |
| BELLFORD.<br>20th October 1852.              | 455. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, in the City of London, Patent Agent, for an invention for—"Improvements in cocks or taps."<br><i>A communication. Letters Patent sealed.</i>                                                                                                                    |
| LIDDELL.<br>20th October, 1852.              | 456. ANTHONY LIDDELL, of Canterbury, in the County of Kent, Engineer, for an invention for—"Improvements in stuffing-boxes, and in packing to be employed with stuffing-boxes and pistons."<br><i>Letters Patent sealed.</i>                                                                                                           |
| BELLFORD.<br>20th October 1852.              | 457. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle St, Holborn, in the City of London, (Patent Agent,) for an invention for—"A new mechanism to reverse the motion of steam-engines particularly of locomotives."<br><i>A communication. Provisional protection only.</i>                                                           |
| DONALDSON.<br>20th October 1852.             | 458. PETER EVANS DONALDSON, of Shrewsbury, in the County of Salop, Engineer, for an invention for—"Improvements in dams, locks, and lock-gates."<br><i>Letters Patent sealed.</i>                                                                                                                                                      |
| HARRISON,<br>HARRISON.<br>20th October 1852. | 459. CHARLES WRIGHTMAN HARRISON and JOSEPH JOHN HARRISON, both of Richmond, in the County of Surrey, Engineers, for an invention for—"Improvements in protecting insulated telegraphic wires."<br><i>Letters Patent sealed.</i>                                                                                                        |
| DE LHUYNES.<br>20th October 1852.            | 460. GUSTAVE PAUL DE LHUYNES, of Conduit Street, Hanover Square, in the County of Middlesex, Doctor of Medicine, for an invention for—"Improvements in apparatus for public announcements or advertisements."<br><i>Provisional protection only.</i>                                                                                   |
| BIDDLES.<br>DOUPHRATE.<br>20th October 1852. | 461. THOMAS HENRY BIDDLES, of Mansfield Road, in the Town and County of the Town of Nottingham, Lace Manufacturer, and JOHN WILLIAM DOUPHRATE, of Radford, in the County of Nottingham, Mechanic, for an invention for—"Improvements in machinery for the manufacture of textile and looped fabrics."<br><i>Letters Patent sealed.</i> |
| SLADE.<br>20th October 1852.                 | 462. JACOB TILTON SLADE, of Pall Mall, in the County of Middlesex, Gentleman, for an invention for—"An improved hoisting apparatus."<br><i>Letters Patent sealed.</i>                                                                                                                                                                  |
| HARRISON.<br>20th October 1852.              | 463. WILLIAM HARRISON, of Blackburn, in the County of Lancaster, Machinist, for an invention for—"Certain improvements in machinery or apparatus for sizing and otherwise preparing cotton, wool, flax, and other warps for weaving."<br><i>Letters Patent sealed.</i>                                                                 |
| GILBERT.<br>NYE.<br>20th October 1852.       | 464. JOHN GILBERT, of 79, Wardour Street, and SAMUEL NYE, of the same place, in the County of Middlesex, for an invention for—"Improvements in mincing meat and other substances."<br><i>Letters Patents sealed.</i>                                                                                                                   |
| CUNDY.<br>20th October 1852.                 | 465. JOSEPH CUNDY, of 21, Victoria Grove, Kensington, in the County of Middlesex, for an invention for—"Improvements in hot-air stoves."<br><i>Letters Patent sealed.</i>                                                                                                                                                              |
| BURNS.<br>WILLETT.<br>20th October 1852.     | 466. ROBERT BURNS, of Liverpool, in the County of Lancaster, Engineer, and RICHARD PRITCHARD WILLETT, of the same place, Bone Merchant, for an invention for—"Certain improvements in machinery or apparatus for cutting bones."<br><i>Letters Patent sealed.</i>                                                                      |

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| SMITH.<br>21st October 1852.   | 467. JOHN SMITH, of Bilston, in the County of Stafford, Brass Founder, for an invention for—"A machine for the cultivation or cleaning of land, and for digging potatoes or other roots."<br><i>Provisional protection only.</i>                                              |
| THOMAS.<br>21st October 1852.  | 468. ALEXANDER THOMAS, of Peckham, in the County of Surrey, Engineer, for an invention for—"Certain improvements in the treatment and welding of metals by certain chemical combinations."<br><i>Provisional protection only.</i>                                             |
| HOPPEN.<br>21st October 1852.  | 469. ROBERT HOPPEN, of Plymouth, in the County of Devon, a Master in Her Majesty's Navy, for an invention for—"Improvements in apparatus for mincing meat."<br><i>Letters Patent sealed.</i>                                                                                  |
| LUKYN.<br>21st October 1852.   | 470. WILLIAM LUKYN, the elder, of Broad Street, in the City of Nottingham, Dentist, for an invention for—"A liquid draught detector or self-measuring tube, with a union conveyance tap, and its stock and time-table."<br><i>Letters Patent sealed.</i>                      |
| PROVIS.<br>21st October 1852.  | 471. JOHN PROVIS, of Chippenham, in the County of Wilts, Gentleman, for an invention for—"Improvements in the construction of ships or vessels."<br><i>Provisional protection only.</i>                                                                                       |
| ROSE.<br>21st October 1852.    | 472. JOSEPH ROSE, Foreman and Manager to John Leadbeater, of Aldersgate Street, in the City of London, Lock Manufacturer, for an invention for—"Improvements in locks."<br><i>Letters Patent sealed.</i>                                                                      |
| BERNARD.<br>21st October 1852. | 473. JULIAN BERNARD, of Guildford Street, Russell Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the production of ornamental surfaces upon leather."<br><i>Letters Patent sealed.</i>                                                  |
| WEILD.<br>21st October 1852.   | 474. WILLIAM WEILD, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in looms for weaving certain descriptions of pile fabrics."<br><i>Letters Patent sealed.</i>                                                                      |
| CURRIE.<br>21st October 1852.  | 475. JOHN CURRIE, of Glasgow, in the county of Lanark, North Britain, Miller, for an invention for—"Improvements in grinding wheat and other substances, and in the treatment and preparation of such substances, and the products thereof."<br><i>Letters Patent sealed.</i> |
| MARSH.<br>21st October 1852.   | 476. SAMUEL MARSH, of Mansfield, in the County of Nottingham, for an invention for—"Improvements in the manufacture of woven fabrics by means of lace machinery."<br><i>Letters Patent sealed; no specification filed.</i>                                                    |
| GOVER.<br>21st October 1852.   | 477. HENRY CHARLES GOVER, of 9, Princes Street, Bedford Row, in the County of Middlesex, for an invention for—"Improvements in the apparatus used in printing with colors."<br><i>Letters Patent sealed.</i>                                                                  |
| CHALKER.<br>21st October 1852. | 478. ROBERT CHALKER, of 6, John St, Adelphi, in the County of Middlesex, for an invention for—"Improvements in the manufacture of manure."<br><i>Provisional protection only.</i>                                                                                             |
| ADDISON.<br>21st October 1852. | 479. WILLIAM ADDISON, of 5, Catherine Terrace, Old Ford, in the County of Middlesex, for an invention for—"Improvements in constructing and propelling vessels."<br><i>Provisional protection only.</i>                                                                       |
| FOWLER.<br>21st October 1852.  | 480. JOHN FOWLER, of Temple Gate, Bristol, in the County of Somerset, for an invention for—"Improvements in machinery for draining land."<br><i>Letters Patent sealed.</i>                                                                                                    |
| FOWLER.<br>21st October 1852.  | 481. JOHN FOWLER, of Temple Gate, Bristol, in the County of Somerset, for an invention for—"Improvements in laying wires for electric telegraphs."<br><i>Letters Patent sealed.</i>                                                                                           |
| FOWLER.<br>21st October 1852.  | 482. JOHN FOWLER, of Temple Gate, Bristol, in the County of Somerset, for an invention for—"Improvements in reaping machinery."<br><i>Letters Patent sealed.</i>                                                                                                              |
| FOWLER.<br>21st October 1852.  | 483. JOHN FOWLER, of Temple Gate, Bristol, in the County of Somerset, for an invention for—"Improvements in machinery for sowing seed and depositing manure."<br><i>Letters Patent sealed.</i>                                                                                |
| ELLINS.<br>22nd October 1852.  | 484. GEORGE ELLINS, of the Borough of Droitwich, in the County of Worcester, for an invention for—"An improved method and apparatus for dressing and cleaning flax straw."<br><i>Letters Patent sealed.</i>                                                                   |
| SOUCHON.<br>22nd October 1852. | 485. JEAN MARIE SOUCHON, of Paris, in France, Chemist, for an invention for—"Improvements in the manufacture and purification of gas for illumination, and certain products therefrom, and in apparatus for that purpose."<br><i>Provisional protection only.</i>             |



BOILESVE.  
22nd October 1852.

SLATE.  
22nd October 1852.

MARTIN.  
22nd October 1852.

FONTAINE MOREAU.  
22nd October 1852.

HOGA.  
22nd October 1852.

WILSON.  
22nd October 1852.

HOLMES.  
23rd October 1852.

PRICE.  
23rd October 1852.

BERRY.  
23rd October 1852.

CRICHTON.  
23rd October 1852.

FOTHERGILL.  
HARVEY.  
23rd October 1852.

LEGRAS.  
GILPIN.  
23rd October 1852.

MALCOLM.  
23rd October 1852.

BRODIE.  
23rd October 1852.

COOLEY.  
23rd October 1852.

LEGRAS.  
GILPIN.  
23rd October 1852.

GRAHAM.  
23rd October 1852.

486. JULIEN BOILESVE, of 4, North Terrace, Brompton, Engineer, for an invention for—"An improved mode of preserving vegetable substances and animal coatings."  
—*A communication.* *Letters Patent sealed.*

487. ARCHIBALD SLATE, of Dudley, in the County of Worcester, Civil Engineer, for an invention for—"Certain improvements in the manufacture and construction of cores and core bars used in the production of hollow castings in iron and other metals." *Letters Patent sealed.*

488. JULIANA MARTIN, of Soho Square, London, for an invention for—"An improved apparatus for artificial hatching." *Letters Patent sealed.*

489. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, in the County of Middlesex, for an invention for—"Improvements in apparatus for assaying silk, cotton, and other similar fibrous substances."—*A communication.* *Letters Patent sealed.*

490. STANISLAUS HOGA, of Nassau Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in separating gold from the ore." *Letters Patent sealed.*

491. JAMES WILSON, of 37, Walbrook, in the City of London, for an invention for—"Improvements in printing fabrics of silk or partly of silk."—*Partly a communication.* *Letters Patent sealed.*

492. JOHN HOLMES, of Manchester, in the County of Lancaster, Engineer and Machinist, for an invention for—"Improvements in lathes." *Letters Patent sealed.*

493. GEORGE PRICE, of Birmingham, Stove Manufacturer, for an invention for—"A new or improved gas stove." *Letters Patent sealed.*

494. PHILIP BERRY, of Manchester, in the County of Lancaster, Machine Maker, for an invention for—"Certain improvements in machinery or apparatus for manufacturing bolts and nuts and other similar articles in metal." *Letters Patent sealed.*

495. DAVID CRICHTON, of Manchester, in the County of Lancaster, Machinist, for an invention for—"Arrangements and apparatus for producing continuous circular motion, giving a series of different velocities obtained from alternate motions, applicable to looms and other machines." *Letters Patent sealed.*

496. THOMAS FOTHERGILL, of Manchester, in the County of Lancaster, Cotton Spinner, and ALEXANDER CUMMINS HARVEY, of the same place, Cotton Spinner, for an invention for—"Certain improvements in the treatment of cotton-wool, and in the manufacture of colored yarns or threads therefrom." *Provisional protection only.*

497. LOUIS NAPOLEON LEGRAS, of Wenlock Street, Hoxton, in the County of Middlesex, Gentleman, Civil Engineer, and WILLIAM LAWRENCE GILPIN, of Bayswater, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the generation of electricity." *Provisional protection only.*

498. GEORGE MALCOLM, of the firm of Malcolm, Ogilvie, & Co, of Dundee, in the County of Forfar, Scotland, Manufacturers, for an invention for—"Certain improvements in the process of carding or teasing jute and other fibrous substances." *Provisional protection only.*

499. JAMES BRODIE, Clerk, of Bow of Fife, in the County of Fife, North Britain, for an invention for—"Certain improvements in the construction of sea-going vessels." *Letters Patent sealed.*

500. ARNOLD JAMES COOLEY, of Parliament Street, in the City of Westminster, Consulting Chemist, for an invention for—"Improvements in the manufacture of artificial leather." *Letters Patent sealed.*

501. LOUIS NAPOLEON LEGRAS, of Wenlock Street, Hoxton, in the County of Middlesex, Gentlemen, Civil Engineer, and WILLIAM LAWRENCE GILPIN, of Bayswater, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in treating flax, hemp, and other fibrous substances." *Provisional protection only.*

502. CHARLES WILLIAM GRAHAM, of Bishopsgate Street, Within, in the City of London, Merchant, for an invention for—"Improvements in the manufacture of bottles and jars."—*A communication.* *Letters Patent sealed.*

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| HISCOCK.<br>23rd October 1852.           | 503. ALBERT HISCOCK, of Titchbourne Street, Haymarket, in the County of Middlesex, Laceman, for an invention for—"The application of ornamental printing to certain fabrics which have hitherto not been printed upon."<br><i>Provisional protection only.</i>                                                                                                                                                                                                             |
| GEYELIN.<br>23rd October 1852.           | 504. GEORGE KENNEDY GEYELIN, of Camden Town, London, for an invention for—"An improved machine for grinding pigments or other vegetable or mineral substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                           |
| MACBAY.<br>23rd October 1852.            | 505. WILLIAM MACBAY, of Woolwich, in the County of Kent, for an invention for—"Improvements in extinguishing fire in dwellings, factories, and other buildings, and in ships."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                            |
| MARCHANT.<br>23rd October 1852.          | 506. ROBERT MUDGE MARCHANT, of Pimlico, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of bridges."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                             |
| BAUWENS.<br>23rd October 1852.           | 507. FELIX LIEVEN BAUWENS, of Croydon, in the County of Surrey, Chemist and Manufacturer, for an invention for—"Improvements in treating fatty matters prior to their being manufactured into candles and mortars, which are also applicable to oils."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                    |
| WHITE.<br>23rd October 1852.             | 508. WILLIAM WHITE, of the firm of William White and Son, of Cheapside, in the City of London, Hat Manufacturers, for an invention for—"An improved fabric suitable for ventilating hat bodies."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                          |
| WATSON.<br>23rd October 1852.            | 509. CHARLES WATSON, of 31, Rhodes Street, Halifax, in the County of York, for an invention for—"Improvements in ventilation."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                            |
| TAYLER.<br>SLATER.<br>23rd October 1852. | 510. JOHN TAYLER, of Manchester, in the County of Lancaster, Engineer, and JAMES SLATER, of the same place, Gentleman, for an invention for—"Certain improvements in machinery, apparatus, or implements for weaving."— <i>Partly a communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                    |
| HUNTER.<br>25th October 1852.            | 511. JOHN HUNTER, formerly of Boston, United States of America, now of Liverpool, in the County of Lancaster, Telegraphic Agent, for an invention for—"Improvements in electric telegraphs, and in apparatus connected therewith."<br><i>Provisional protection only.</i>                                                                                                                                                                                                  |
| STOLL.<br>25th October 1852.             | 512. JOHN JAMES STOLL, of the Palace, Enfield, in the County of Middlesex, for an invention for—"Improvements in the manufacture of boots and shoes and similar articles, and in machinery used therein, entitled 'Metallic toothed and wedged seams and waterproof elastic indented stitches.'"<br><i>Provisional protection only.</i>                                                                                                                                    |
| PLIMSOLL.<br>25th October 1852.          | 513. SAMUEL PLIMSOLL, of Sheaf Gardens, in the Parish of Sheffield, in the West Riding of the County of York, Office Clerk, for an invention for—"More thoroughly and effectually cleansing, extracting, and separating or fining ale, beer, porter, bitter beer, India pale Ale, and other malt liquors from the yeast, bottoms, barn, sediment, and other extraneous matters and impurities with which it may be in combination."<br><i>Provisional protection only.</i> |
| DESBORDES.<br>25th October 1852.         | 514. CHARLES LEON DESBORDES, of Paris, in France, Engineer, for an invention for—"Improvements in instruments for measuring the pressure and temperature of air, steam, and other fluids."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                          |
| MITCHESON.<br>25th October 1852.         | 515. ROBERT WILLIAM MITCHESON, of the firm of William Mitcheson and Sons, of Garford Street, in the County of Middlesex, Anchorsmiths, for an invention for—"Improvements in anchors."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                    |
| WALL.<br>25th October 1852.              | 516. ARTHUR WALL, of Poplar, in the County of Middlesex, for an invention for—"Improvements in the manufacture of sulphuric and other acids."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                       |
| DEBRAY.<br>25th October 1852.            | 517. JOSEPH FLORENTIN ANACHARSIS DEBRAY, of Paris, in the Republic of France, for an invention for—"An improved stock or neckcloth."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                |
| JOHNSON.<br>25th October 1852.           | 518. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in the manufacture of spikes or metal pins."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                                                                                                              |



- FITZPATRICK.  
25th October 1852.
- MARION.  
26th October 1852.
- CASS.  
26th October 1852.
- SMITH.  
SMITH.  
26th October 1852.
- CLARKE.  
26th October 1852.
- ROWLEY.  
26th October 1852.
- MYERS.  
MYERS.  
HILL.  
26th October 1852.
- NASMYTH.  
26th October 1852.
- DE KLEINSORGEN.  
26th October 1852.
- WALCOTT.  
26th October 1852.
- MITCHESON.  
26th October 1852.
- PAGE.  
26th October 1852.
- EVANS.  
27th October 1852.
- STEVENS.  
27th October 1852.
- BAINBRIDGE.  
27th October 1852.
- CLARKE.  
27th October 1852.
- CONRY.  
27th October 1852.
519. MATHEW FITZPATRICK, of Upper Cleveland Street, Fitzroy Square, in the County of Middlesex, Machinist, for an invention for—"Certain improvements in machinery or apparatus to be applied to locomotive engines and carriages for the prevention of accidents, and also in the manufacture and application of indestructible and non-rebounding cushions to be applied to the above, and for other similar purposes."  
*Letters Patent sealed.*
520. CLAUDE MAMÈS AUGUSTIN MARION, of Paris, in the Republic of France, now residing in Regent Street, in the County of Middlesex, for an invention for—"A new kind of damper for moistening stamps and paper."  
*Letters Patent sealed.*
521. JOHN CASS, of Blue Pits, near Rochdale, in the County of Lancaster, Engineer and Millwright, for an invention for—"Improvements in steam engines."  
*Letters Patent sealed.*
522. WILLIAM SMITH and JOHN SMITH, both of No. 5, Upper John Street, Golden Square, in the County of Middlesex, for an invention for—"Certain improvements in garments or articles of dress."  
*Provisional protection only.*
523. WILLIAM CLARKE, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in joints for connecting metals."  
*Letters Patent sealed.*
524. CHARLES ROWLEY, of Birmingham, in the County of Warwick, Button Manufacturer, for an invention for—"Certain improvements in nails."  
*Letters Patent sealed.*
525. MYER MYERS and MAURICE MYERS, trading as the firm of Myers and Son, and WILLIAM HILL, Manager to the said firm, Steel Pen Manufacturers, all of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in pens and penholders."  
*Letters Patent sealed.*
526. JAMES NASMYTH, of Stafford Street, Bond Street, in the County of Middlesex, Engineer, for an invention for—"An improved mode of utilizing running waters."  
*Letters Patent sealed.*
527. JOSEPH CHARLES FREDERICK BARON DE KLEINSORGEN, of Little New Street, in the City of London, for an invention for—"An improved apparatus for indicating the variation of the magnetic needle."  
*Letters Patent sealed.*
528. HALSEY DRAPER WALCOTT, of Boston, of the State of Massachusetts and United States of America, for an invention for—"A new and useful or improved mechanism or contrivance for cutting button holes or slits in cloth or other material."  
*Complete specification; Letters Patent sealed.*
529. ROBERT WILLIAM MITCHESON, of the firm of Mitcheson and Sons, of Garford Street, in the County of Middlesex, Anchorsmiths, for an invention for—"An improved safety hook."  
*Letters Patent sealed.*
530. HENRY PAGE, of Whitechapel Road, in the County of Middlesex, Paper-stainer, for an invention for—"Improvements in paper staining."  
*Provisional protection only.*
531. GEORGE EVANS, of Mary-le-bone, in the County of Middlesex, Gentleman, for an invention for—"Improvements in treating peat and other carbonaceous matters."  
*Provisional protection only.*
532. JOHN LEE STEVENS, of Kennington, in the County of Surrey, for an invention for—"Improvements in furnaces."  
*Letters Patent sealed.*
533. ANTHONY FOTHERGILL BAINBRIDGE, of Putney, in the County of Surrey for an invention for—"Improvements in the manufacture of artificial flies and other bait for fish."  
*Letters Patent sealed.*
534. SAMUEL CLARKE, of 55, Albany Street, Regent's Park, in the County of Middlesex, Lamp and Candle Manufacturer, for an invention for—"Improvements in the manufacture of candles."  
*Letters Patent sealed.*
535. JAMES CONRY, of Manchester, in the County of Lancaster, Umbrella and Parasol Manufacturer, for an invention for—"Improvements in umbrellas and parasols."  
*Letters Patent sealed.*

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| CROSBY.<br>27th October 1852.            | 536. JAMES CROSBY, of Manchester, in the County of Lancaster, Merchant, for an invention for—"Improvements in looms."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                   |
| BERTOLACCI.<br>27th October 1852.        | 537. WILLIAM ROBERT BERTOLACCI, of No. 45, Rue d'Amsterdam, Paris, in the Republic of France, for an invention for—"An improved pneumatic ink and pen-holder."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                |
| HERVIER.<br>27th October 1852.           | 538. ALFRED CHARLES HERVIER, Civil Engineer, of Paris, in the Republic of France, and 4, South Street, Finsbury, London, for an invention for—"An improvement in the application of centrifugal force to propelling on water."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                |
| LEGRAS.<br>GILPIN.<br>27th October 1852. | 539. LOUIS NAPOLEON LEGRAS, of Wenlock Street, Hoxton, in the County of Middlesex, Civil Engineer, and WILLIAM LAWRENCE GILPIN, of Bayswater, in the County of Middlesex, Civil Engineer, for an invention for—"A compound having the properties of gutta-percha."<br><i>Provisional protection only.</i>                                                                                                                                      |
| POTTS.<br>27th October 1852.             | 540. THOMAS POTTS, of Birmingham, in the County of Warwick, Tube Maker, for an invention for—"Improvements in the manufacture of hinges, and in the machinery for producing the same."<br><i>Complete specification; Letters Patent sealed.</i>                                                                                                                                                                                                |
| LORD.<br>27th October 1852.              | 541. THOMAS WILKS LORD, of Leeds, in the County of York, Flax and Tow machine Maker, for an invention for—"Improvements in safety and other lamps."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                           |
| CARR.<br>27th October 1852.              | 542. HENRY CARR, of East Retford, in the County of Nottingham, Civil Engineer, for an invention for—"Certain improvements in railways."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                 |
| NORTON.<br>27th October 1852.            | 543. JOHN NORTON, of Cork, in the County of Cork, Esquire, Captain, late of H.M. 34th Foot, for an invention for—"Improvements in blasting."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                  |
| YOUNG.<br>27th October 1852.             | 544. JAMES HADDEN YOUNG, of 66, College Street, Camden Town, in the County of Middlesex, for an invention for—"Improvements in expressing juice or fluid from the sugar cane and from other matters."<br><i>Provisional protection only.</i>                                                                                                                                                                                                   |
| NORMAND.<br>27th October 1852.           | 545. CHARLES BENJAMIN NORMAND, of Havre, in the Republic of France, Shipbuilder, for an invention for—"Improvements in machinery for sawing wood."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                            |
| NASMYTH.<br>27th October 1852.           | 546. JAMES NASMYTH, of Stafford Street, Bond Street, in the County of Middlesex, Engineer, for an invention for—"Improvements in the mode of obtaining and applying motive power."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                            |
| SMITH.<br>27th October 1852.             | 547. JAMES HENRY SMITH, of Connaught Terrace, London, for an invention for—"Improvements in corsets."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                         |
| THORP.<br>28th October 1852.             | 548. WILLIAM THORP, Dyer, Bleacher, and Finisher, of Collyhurst, near Manchester, in the County of Lancaster, for an invention for—"Certain improvements in steam-boxes, and the mode of heating press-plates used in hot pressing of silks, delaines, cobourgs, merinos, fancy goods, and other similar fabrics."<br><i>Letters Patent sealed.</i>                                                                                            |
| DONKIN.<br>FAREY.<br>28th October 1852.  | 549. BRYAN DONKIN the younger, of Bermondsey, in the County of Surrey, Engineer, and BARNARD WILLIAM FAREY, of Commercial Road, Old Kent Road, in the said County, Engineer, for an invention for—"Improvements in the machinery for measuring or marking off long lengths or continuous webs of paper or other materials into any required lengths, for the purpose of being cut or otherwise disposed off."<br><i>Letters Patent sealed.</i> |
| WORMALD.<br>28th October 1852.           | 550. JOHN WORMALD, of Manchester, in the County of Lancaster, Maker-up and Packer, for an invention for—"Improvements in machinery or apparatus for roving, spinning, and doubling cotton, wool, or other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                |
| PROVOST.<br>28th October 1852.           | 551. HENRY PROVOST, of Paris, in the Republic of France, Manufacturer, for an invention for—"An improved hat protector."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                |
| HATTERSLEY.<br>28th October 1852.        | 552. GEORGE HATTERSLEY, of Sheffield, in the County of York, for an invention for—"A radiating hearth-plate."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                 |



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| BIELEFELD.<br>28th October 1852.                     | 553. CHARLES FREDERICK BIELEFELD, of the Strand, in the County of Middlesex, for an invention for—"Improvements in billiard and bagatelle tables."<br><i>Letters Patent sealed.</i>                                                                                                                                |
| BROWNE.<br>28th October 1852.                        | 554. JOHN COLLIS BROWNE, Assistant Surgeon to the Forces at Fort Pitt, Chatham, in the County of Kent, for an invention for—"The relief of individuals suffering from pulmonary affections or diseases of the chest."<br><i>Letters Patent sealed.</i>                                                             |
| TABBERER.<br>28th October 1852.                      | 555. THOMAS PARKER TABBERER, of Derby, for an invention for—"Improvements in machinery for frame-work knitting."<br><i>Provisional protection only.</i>                                                                                                                                                            |
| REDL.<br>28th October 1852.                          | 556. CHARLES ARTHUR REDL, of 27A, Davis Street, Berkeley Square, in the County of Middlesex, for an invention for—"Improvements in telegraphing or communicating signals at sea and otherwise."<br><i>Letters Patent sealed.</i>                                                                                   |
| MALLET.<br>28th October 1852.                        | 557. ROBERT MALLET, of the City of Dublin, in Ireland, Engineer, for an invention of "Improvements in fire-proof and other buildings and structures."<br><i>Letters Patent sealed.</i>                                                                                                                             |
| RAMSBOTHAM.<br>BROWN.<br>29th October 1852.          | 558. HENRY ROBERT RAMSBOTHAM, of Bradford, in the County of York, Worsted Spinner, and WILLIAM BROWN, of the same place, Mechanic, for an invention for—"Improvements in preparing and combing wool and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                |
| JOUBERT.<br>TRICAS.<br>KÖHLER.<br>29th October 1852. | 559. CHARLES AUGUSTE JOUBERT, of Paris, in France, Merchant, and LÉON JACQUES TRICAS, also of Paris, Merchant, and JULES CÉSAR KÖHLER, also of Paris, Engineer, for an invention for—"Improved bunks for stays."<br><i>Provisional protection only.</i>                                                            |
| ASHPITEL.<br>WHICHORD.<br>29th October 1852.         | 560. ARTHUR ASHPITEL and JOHN WHICHORD the younger, both of Carlton Chambers, Regent Street, in the City of Westminster and County of Middlesex, Architects, for an invention for—"Certain improvements in cocks, valves, and fire-plugs."<br><i>Letters Patent sealed.</i>                                        |
| WILSON.<br>29th October 1852.                        | 561. JAMES GODFREY WILSON, of Lindsey House, Chelsea, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in signals to be used on railways, or for similar purposes, and in the apparatus connected therewith."<br><i>Provisional protection only.</i>                                 |
| COOLEY.<br>29th October 1852.                        | 562. ARNOLD JAMES COOLEY, of Parliament Street, in the City of Westminster, Consulting Chemist, for an invention for—"Improvements in treating woven and felted fabrics, to render the same repellent to water and damp."<br><i>Letters Patent sealed.</i>                                                         |
| BOWER.<br>29th October 1852.                         | 563. GEORGE BOWER, of St. Neots, in the County of Huntingdon, Ironmonger and Ironfounder, for an invention for—"Improvements in gas-stoves or fireplaces."<br><i>Provisional protection only.</i>                                                                                                                  |
| BATES.<br>29th October 1852.                         | 564. WILLIAM BATES, of Leicester, in the County of Leicester, Fuller and Dresser, for an invention for—"Improvements in apparatus for getting up stockings and other hosiery goods."<br><i>Letters Patent sealed.</i>                                                                                              |
| TALBOT.<br>29th October 1852.                        | 565. WILLIAM HENRY FOX TALBOT, of Lacock Abbey, in the County of Wilts, Esquire, for an invention for—"Improvements in the art of engraving."<br><i>Letters Patent sealed.</i>                                                                                                                                     |
| LE GRAS.<br>GILPIN.<br>29th October 1852.            | 566. LOUIS NAPOLEON LE GRAS, of Wenlock Street, City Road, in the County of Middlesex, Civil Engineer, and WILLIAM LAWRENCE GILPIN, of Porchester Terrace, Bayswater, in the said County, Gentleman, for an invention for—"Improvements in transmitting electric currents."<br><i>Provisional protection only.</i> |
| BROOMAN.<br>23th October 1852.                       | 567. RICHARD ARCHIBALD BROOMAN, of the firm of J. C. Robertson and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in violins and other similar stringed musical instruments."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                   |
| BROOMAN.<br>29th October 1852.                       | 568. RICHARD ARCHIBALD BROOMAN, of the firm of J. C. Robertson and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in tackle blocks."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                            |

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| BINNS.<br>30th October 1852.                 | 569. WILLIAM BINNS, of 43, Trinity Square, in the Borough of Southwark, in the County of Surrey, Consulting Engineer, for an invention for—"An improved mode of constructing a draught breastplate or collar for horses or other draught animals."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                            |
| WATTS.<br>30th October 1852.                 | 570. MARTIN WATTS, of Patricroft, near Manchester, in the County of Lancaster, Cotton Spinner, for an invention for—"Certain improvements in machinery or apparatus for roving or preparing cotton and other fibrous substances for spinning."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                       |
| BALE.<br>SANDERS.<br>30th October 1852.      | 571. THOMAS SANDERS BALE, of Caudon Place, in the County of Stafford, China Manufacturer, and FREDERICK GEORGE SANDERS, of the same place, Engineer, for an invention for—"Certain improvements in machinery or apparatus for grinding and mixing clays or other plastic materials."<br><i>Provisional protection only.</i>                                                                                   |
| BRINSMEAD.<br>30th October 1852.             | 572. HENRY BRINSMEAD, of the Parish of St. Giles in the Wood, in the County of Devon, Machine Maker, for an invention for—"Shaking straw to be attached to thrashing machines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                              |
| BIRD.<br>WELCH.<br>30th October 1852.        | 573. EDWARD BIRD, of Birmingham, Gent., and EDWARD WELCH, of London, Architect, for an invention for—"An improved cart or vehicle."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                    |
| GEDGE.<br>30th October 1852.                 | 574. JOHN GEDGE, of 4, Wellington Street, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in printing presses or machines."<br><i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                  |
| DE LUCENAY.<br>30th October 1852.            | 575. PIERRE BERNARDET DE LUCENAY, of Paris, in the Republic of France, and of 4, South Street, Finsbury, London, for an invention for—"The production of photographic images by means of artificial light."<br><i>Letters Patent sealed.</i>                                                                                                                                                                  |
| M <sup>c</sup> CALLUM.<br>30th October 1852. | 576. BOWMAN FLEMING M <sup>c</sup> CALLUM, of Govan Croft Dye Work, Glasgow, in the County of Lanark, Dyer, for an invention for—"A yarn-drying machine."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                    |
| CROWTHER.<br>TEALL.<br>30th October 1852.    | 577. JOHN CROWTHER, of Huddersfield, Contractor, and WILLIAM TEALL, of Wakefield, Engineer, for an invention for—"Improvements in obtaining motive-power."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                   |
| KIRBY.<br>30th October 1852.                 | 578. EDMUND ADOLPHUS KIRBY, of Haverstock Hill, Surgeon, for an invention for—"An improved adjusting couch, for medical, surgical, and general purposes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                    |
| NEWTON.<br>30th October 1852.                | 579. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in machinery for cutting corn and other standing crops."— <i>A communication from John H. Manny, of Waddam's Grove, in the County of Stephenson and State of Illinois, in the United States of America.</i><br><i>Letters Patent sealed.</i> |
| LEBRUN.<br>30th October 1852.                | 580. JEAN AUGUSTE LEBRUN, of Paris, but now residing at Panton Square, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of buildings and pavements, and the manufacture of the materials used therein."<br><i>Provisional protection only.</i>                                                                                                              |
| BERNARD.<br>30th October 1852.               | 581. JULIAN BERNARD, of Guildford Street, Russell Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of glass."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                            |
| SINCLAIR.<br>30th October 1852.              | 582. JAMES SINCLAIR, of Stirling, in the County of Stirling, North Britain for an invention for—"Improvements in engines to be worked by steam, air, or water, the said improvements being also applicable to pumps."<br><i>Letters Patent sealed.</i>                                                                                                                                                        |
| BROOMAN.<br>30th October 1852.               | 583. RICHARD ARCHIBALD BROOMAN, of the firm of J. C. Robertson and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in revolving fire-arms."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                 |
| SELBY.<br>30th October 1852.                 | 584. GEORGE THOMAS SELBY, of Smethwick Tube Works, Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in steam-boilers."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                     |



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| WHITCOMB.<br>SMITH.<br>30th October 1852.   | 585. JOHN WHITCOMB and RICHARD SMITH, both of Kidderminster, in the County of Worcester, Foremen, for an invention for—"Improvements in the manufacture of carpets, hearthrugs, and other similar fabrics." <i>Letters Patent sealed.</i>                                                                                                                                                                                                               |
| SELBY.<br>30th October 1852.                | 586. GEORGE THOMAS SELBY, of Smethwick Tube Works, Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in machinery for the manufacture of tubes and pipes." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                               |
| ROCK.<br>30th October 1852.                 | 587. JAMES ROCK the younger, of Hastings, in the County of Sussex, Carriage Builder, for an invention for—"Improvements in railway-carriages." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                            |
| WILSON.<br>PARTRIDGE.<br>30th October 1852. | 588. GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, Managing Director of Price's Patent Candle Company, and EDWARD PARTRIDGE, of Wandsworth, Gentleman, for an invention for—"Improvements in the instruments or apparatus used when burning candles." <i>Letters Patent sealed.</i>                                                                                                                                                                    |
| DANTEC.<br>30th October 1852.               | 589. WILLIAM DANTEC, of Liverpool, in the County of Lancaster, for an invention for—"Improvements in preventing incrustation in steam-boilers." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                           |
| PETRIE.<br>1st November 1852.               | 590. WILLIAM PETRIE, of Woolwich, in the County of Kent, Civil Engineer, for an invention for—"Improvements in the manufacture of sulphuric acid." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                        |
| EVANS.<br>1st November 1852.                | 591. GEORGE EVANS, of Wellington, in the County of Shropshire, Gentleman, for an invention for—"An improved gridiron." <i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                              |
| DIXON.<br>1st November 1852.                | 592. GEORGE DIXON, of the City of Dublin, Soap and Candle Manufacturer, for an invention for—"An improvement in bleaching palm oil." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                      |
| LAWSON.<br>1st November 1852.               | 593. EDWARD LAWSON, Machine Maker, of Leeds, in the County of York, for an invention for—"Certain improvements in machinery for preparing to be spun, hemp, flax, tow, wool, silk, cotton, and other fibrous materials." <i>Letters Patent sealed.</i>                                                                                                                                                                                                  |
| BERKELEY.<br>1st November 1852.             | 594. CHARLES JOHN BERKELEY, of Smethwick, in the County of Stafford, Glass Manufacturer, for an invention for—"A new or improved reflector or new or improved reflectors for illuminating purposes." <i>Provisional protection only.</i>                                                                                                                                                                                                                |
| WATSON.<br>SLATER.<br>1st November 1852.    | 595. JOSEPH JOHN WILLIAM WATSON, of Old Kent Road, in the County of Surrey, and THOMAS SLATER, of the Parish of St. Pancras, in the County of Middlesex, for an invention for—"Improvements in galvanic batteries, and in the application of electric currents to the production of electrical illumination and of heat, and in the production of chemical products by the aforesaid improvements in galvanic batteries." <i>Letters Patent sealed.</i> |
| DUNNING.<br>1st November 1852.              | 596. JOSEPH DUNNING, of the Parthenon Chambers, No. 14, Regent Street, in the Parish of St. James, in the City of Westminster, Surveyor, for an invention for—"An improvement in the construction of coke ovens." <i>Provisional protection only.</i>                                                                                                                                                                                                   |
| WALKER.<br>1st November 1852.               | 597. HENRY WALKER, of Gresham Street West, in the City of London, Needle Manufacturer, for an invention for—"Improvements in machinery and apparatus used in cylinder-printing." <i>Provisional protection only.</i>                                                                                                                                                                                                                                    |
| BILLOWS.<br>1st November 1852.              | 598. HENRY BROCK BILLOWS, of the Curtain Road, London, for an invention for—"Improvements in the construction of gas-burners for illuminating and heating purposes." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                      |
| SMITH.<br>1st November 1852.                | 599. JULIUS SMITH, of Islington, in the County of Middlesex, Gentleman, for an invention for—"Certain improvements in apparatus to be used in ships and steamers for ascertaining and signalling depths at sea." <i>Provisional protection only.</i>                                                                                                                                                                                                    |
| WILSON.<br>1st November 1852.               | 600. GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, in the County of Surrey, Managing Director of Price's Patent Candle Company, for an invention for—"Improvements in the manufacture and treatment of oils." <i>Letters Patent sealed.</i>                                                                                                                                                                                                            |
| JEFFREYS.<br>1st November 1852.             | 601. JULIUS JEFFREYS, of Croydon, in the County of Surrey, for an invention for—"Improvements in obtaining power when steam or other vapour is used." <i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                                                                                                             |

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| CHUBB.<br>1st November 1852.     | 602. JOHN CHUBB, of St. Paul's Churchyard, in the City of London, for an invention for—"Improvements in locks."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                             |
| THOMSON.<br>1st November 1852.   | 603. DAVID THOMSON, of Dundee, in the County of Forfar, Manufacturer, for an invention for—"Improvements in the manufacture of carpets."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                    |
| JERRARD.<br>1st November 1852.   | 604. PAUL JERRARD, of 111, Fleet Street, in the City of London, Publisher, for an invention for—"Certain improvements in ornamenting japanned and papier-mâché surfaces, as also the surfaces of varnished and polished woods."<br><i>Provisional protection only.</i>                                                                                                                       |
| STENSON.<br>1st November 1852.   | 605. GEORGE STENSON, of the Town and County of Northampton, Engineer, for an invention for—"Improvements in apparatus for separating gold from auriferous sand and earth."<br><i>Provisional protection only.</i>                                                                                                                                                                            |
| JAQUES.<br>1st November 1852.    | 606. JOHN JAQUES the younger, of Hatton Garden, in the County of Middlesex, Ivory Turner, for an invention for—"Improvements in chess and draught boards."<br><i>Provisional protection only.</i>                                                                                                                                                                                            |
| DANIELL.<br>1st November 1852.   | 607. FRANCIS DANIELL, of Camborne, in the County of Cornwall, Analytical Chemist, for an invention for—"Improvements in stamp heads."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                       |
| DRIEU.<br>2nd November 1852.     | 608. JEROME ANDRÉ DRIEU, of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery for weaving and for dividing double cloth to make pile fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                             |
| MARION.<br>2nd November 1852.    | 609. JOHN NICHOLAS MARION, Gentleman, of Paris, in the Republic of France, and of 4, South Street, Finsbury, in the County of Middlesex, for an invention for—"A new mode of rendering concrete colsead oil."<br><i>Letters Patent sealed.</i>                                                                                                                                               |
| NEWTON.<br>2nd November 1852.    | 610. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of capsules or covers for bottles and other hollow articles."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                          |
| SIEVIER.<br>2nd November 1852.   | 611. ROBERT WILLIAM SIEVIER, of Holloway, in the County of Middlesex, Gentleman, for an invention for—"Improvements applicable to the manufacture of hats, caps, and bonnets or other coverings for the head."<br><i>Letters Patent sealed.</i>                                                                                                                                              |
| DIBLE.<br>2nd November 1852.     | 612. JAMES DIBLE, of Northam, in the County of Hants, Shipwright, for an invention for—"Improvements in ventilating and heating ships; which improvements are also applicable to extinguishing fire on board ship."<br><i>Letters Patent sealed.</i>                                                                                                                                         |
| BIANCHI.<br>2nd November 1852.   | 613. MAURIZIO BIANCHI, of Arundel Street, in the County of Middlesex, Notary, for an invention for—"Improvements in electro-magnetic apparatus for generating gas applicable for motive, lighting, and heating purposes."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                    |
| ARCHIBALD.<br>2nd November 1852. | 614. CHARLES DICKSON ARCHIBALD, of Rusland Hall, Milnthorpe, in the County of Westmoreland, Esquire, for an invention for—"Improvements in machinery and apparatus for crushing, grinding, and triturating refractory and other materials, and for washing and separating ores and metals from earthy and other substances."— <i>A communication.</i><br><i>Provisional protection only.</i> |
| ARCHIBALD.<br>2nd November 1852. | 615. CHARLES DICKSON ARCHIBALD, of Rusland Hall, Milnthorpe, in the County of Westmoreland, Esquire, for an invention for—"Improvements in lighting and heating."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                  |
| POUGET.<br>2nd November 1852.    | 616. LOUIS AUGUSTE POUGET, Manufacturer, of Paris, in the French Republic, for an invention for—"Improvements in lamps."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                                                                                                                     |
| MACINTOSH.<br>2nd November 1852. | 617. JOHN MACINTOSH, of Aberdeen, for an invention for—"Improvements in the manufacture of paper."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                                                                                                  |
| OZOUR.<br>2nd November 1852.     | 618. GEORGES HYACINTHE OZOUR, Manufacturer, of Paris, in the French Republic, for an invention for—"Certain improvements in working, forming, or shaping sheet metal and alloys."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                                                            |



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| WILSON.<br>2nd November 1852.             | 619. GEORGE FERGUSON WILSON, of Belmont, Vauxhall, Managing Director of Price's Patent Candle Company, for an invention for—"Improvements in the preparation of materials for and in the manufacture of candles and night lights."<br><i>Letters Patent sealed.</i>                                                    |
| WILSON.<br>2nd November 1852.             | 620. GEORGE FERGUSON WILSON, of Belmont, Vauxhall, Managing Director of Price's Patent Candle Company, for an invention for—"Improvements in treating wool in the manufacture of woollen and other fabrics."<br><i>Letters Patent sealed.</i>                                                                          |
| SAMUELSON.<br>2nd November 1852.          | 621. BERNHARD SAMUELSON, of Banbury, in the County of Oxford, for an invention for—"Improvements in breaking up and tilling land."<br><i>Letters Patent sealed.</i>                                                                                                                                                    |
| LEY.<br>3rd November 1852.                | 622. GEORGE WILLIAM LEY, of Grand Parade House, Brighton, in the County of Sussex, Gentleman, for an invention for—"The manufacture of a material to be used for certain purposes, instead of wool, leather, millboard, or oilcloth."<br><i>Provisional protection only.</i>                                           |
| LEY.<br>3rd November 1852.                | 623. GEORGE WILLIAM LEY, of Grand Parade House, Brighton, in the County of Sussex, Gentleman, for an invention for—"A method of imitating carvings in wood."<br><i>Complete specification; protection for SIX months only.</i>                                                                                         |
| LORD.<br>3rd November 1852.               | 624. EDWARD LORD, of Todmorden, in the County of York, Machine Maker, for an invention for—"Improvements in certain machinery to be used in preparing, spinning, and weaving cotton and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                    |
| CAMERON.<br>3rd November 1852.            | 625. JOHN CAMERON, of Manchester, in the County of Lancaster, Mechanic, for an invention for—"Improvements in boilers for generating steam, and in feed-pumps, and in apparatus connected therewith."<br><i>Letters Patent sealed.</i>                                                                                 |
| PHILLIPS.<br>3rd November 1852.           | 626. CHARLES PHILLIPS, of the City and County of Bristol, Engineer, for an invention for—"Improvements in apparatus or machinery for reaping or cutting crops of corn, or other crops to the cutting of which reaping-machines are applicable."<br><i>Letters Patent sealed.</i>                                       |
| HELY.<br>3rd November 1852.               | 627. ALFRED AUGUSTUS DE REGINALD HELY, of Cannon Row, Westminster, in the County of Middlesex, Civil Engineer, for an invention for—"An improved shade or chimney for lamps, chandeliers, gas and other burners."<br><i>Letters Patent sealed.</i>                                                                     |
| SIDEBOTTOM.<br>3rd November 1852.         | 628. ALFRED SIDEBOTTOM, of Downham Road, Islington, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery or apparatus for cutting books, paper, and other substances."<br><i>Letters Patent sealed.</i>                                                                         |
| TISSSET.<br>3rd November 1852.            | 629. AUGUSTE ALEXANDRE TIESSET, of Boulogne-sur-Mer, in the Republic of France, Merchant, for an invention for—"Improvements in apparatus for exhibiting notices and advertisements of various kinds."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                 |
| SPENCER.<br>TAYLOR.<br>3rd November 1852. | 630. HENRY SPENCER, of Rochdale, in the County of Lancaster, Manager, and EDMUND TAYLOR, of the same place, Engineer, for an invention for—"Improvements in steam engines and boilers."<br><i>Letters Patent sealed.</i>                                                                                               |
| BLAIR.<br>3rd November 1852.              | 631. HARRISON BLAIR, of Colthurst, in the Parish of Mitten and County of York, for an invention for—"Improvements in apparatus for supplying steam-boilers with water."<br><i>Letters Patent sealed.</i>                                                                                                               |
| HODGE.<br>3rd November 1852.              | 632. NEHEMIAH HODGE, of North Adams, of the State of Massachusetts and United States of America, for an invention for—"Discharging water from the hold of a navigable vessel."<br><i>Letters Patent sealed.</i>                                                                                                        |
| MACINTOSH.<br>3rd November 1852.          | 633. JOHN MACINTOSH, of Berners Street, in the County of Middlesex, for an invention for—"Improvements in projectiles and cartridges."<br><i>Letters Patent sealed.</i>                                                                                                                                                |
| PETTIT.<br>3rd November 1852.             | 634. EMILY PETTIT, of 10, Brompton Crescent, Brompton, in the County of Middlesex, Spinster, for an invention for—"A musical instrument which she calls a Euphotine."— <i>A communication from her late uncle, James Pettit, Esquire, F.R.A.S., of Allsop Terrace, Regent's Park.</i><br><i>Letters Patent sealed.</i> |
| PRYSE.<br>REDMAN.<br>4th November 1852.   | 635. CHARLES PRYSE and RICHARD REDMAN, both of Birmingham, in the County of Warwick, Gunmakers, for an invention for—"Improvements in a certain description of fire-arms."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                   |

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| ARCHER.<br>4th November 1852.            | 636. ELISHA THOMAS ARCHER, of Oxford Street, in the County of Middlesex, Paper Stainer, for an invention for—"Improvements in the manufacture of coverings for walls."<br><i>Provisional protection only.</i>                                                                                                       |
| POPE.<br>4th November 1852.              | 637. WILLIAM POPE, of Holford Square, Pentonville, in the County of Middlesex, Engraver, for an invention for—"Improvements in the ventilation of ships."<br><i>Letters Patent sealed.</i>                                                                                                                          |
| BRACKENBURY.<br>4th November 1852.       | 638. AUGUSTUS BRACKENBURY, of 49, Henry Street, St. John's Wood, Paddington, in the County of Middlesex, for an invention for—"Precipitating the muriate of soda more economically than the process now adopted."<br><i>Provisional protection only.</i>                                                            |
| REYNAUD.<br>4th November 1852.           | 639. JOSEPH REYNAUD, of Paris, in the Republic of France, for an invention for—"Certain improved means of imitating marbles and various coloured woods."<br><i>Letters Patent sealed.</i>                                                                                                                           |
| KLOTZ.<br>4th November 1852.             | 640. MARC KLOTZ, of No. 77, Rue Rambuteau, in the City of Paris, in France, Merchant, for an invention for—"An improved process and apparatus to be employed in ornamenting fabrics, leather, paper, and other surfaces."<br><i>Complete specification; Letters Patent sealed.</i>                                  |
| HALL.<br>5th November 1852.              | 641. COLLINSON HALL, of Essex, Farmer, for an invention for—"An apparatus to be used in the carriage of solid and liquid bodies."<br><i>Letters Patent sealed.</i>                                                                                                                                                  |
| PILBROW.<br>5th November 1852.           | 642. JAMES PILBROW, of Tottenham, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in obtaining motive power."<br><i>Provisional protection only.</i>                                                                                                                         |
| BUNNETT.<br>5th November 1852.           | 643. JOSEPH BUNNETT, of Deptford, in the County of Kent, Engineer, for an invention for—"Improvements in revolving iron or other metal shutters."<br><i>Provisional protection only.</i>                                                                                                                            |
| SHAND.<br>McLEAN.<br>5th November 1852.  | 644. GEORGE SHAND, of Glasgow, in the County of Lanark, and ANDREW McLEAN, of Edinburgh, in the County of Mid Lothian, Scotland, Chemists, for an invention for—"Improvements in obtaining products from tar."<br><i>Letters Patent sealed.</i>                                                                     |
| FAIRBAIRN.<br>5th November 1852.         | 645. PETER FAIRBAIRN, of Leeds, in the County of York, Machinist, for an invention for—"Certain improvements in self-acting reeling machinery, for reeling flax and other yarns into hanks."<br><i>Letters Patent sealed.</i>                                                                                       |
| FIFE.<br>5th November 1852.              | 646. GEORGE FIFE, of the Town and County of Newcastle-upon-Tyne, Doctor of Medicine, for an invention for—"Improvements in steam and water gauges."<br><i>Letters Patent sealed.</i>                                                                                                                                |
| PORTER.<br>5th November 1852.            | 647. JOHN HENDERSON PORTER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in the construction of portable buildings and other structures."<br><i>Letters Patent sealed.</i>                                                                                                 |
| FRAME.<br>5th November 1852.             | 648. JOHN FRAME, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in looms for weaving."<br><i>Provisional protection only.</i>                                                                                                                                     |
| KNOX.<br>5th November 1852.              | 649. ANDREW LAWSON KNOX, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in the manufacture or production of ornamental fabrics."<br><i>Letters Patent sealed.</i>                                                                                             |
| WOTHERSPOON.<br>5th November 1852.       | 650. JAMES WOTHERSPOON, of Glasgow, in the County of Lanark, North Britain, Wholesale Confectioner, for an invention for—"Improvements in the manufacture or production of confectionary, and in the machinery, apparatus, or means employed therein."<br><i>Letters Patent sealed.</i>                             |
| HUGHES.<br>DENHAM.<br>5th November 1852. | 651. HESKETH HUGHES and WILLIAM THOMAS DENHAM, both of Cottage Place, City Road, in the County of Middlesex, Manufacturers of Fancy Trimmings, for an invention for—"Certain machinery for the manufacture of fancy ribbons, ornamental trimmings, chenilles, fringes, and gimps."<br><i>Letters Patent sealed.</i> |
| YOUNG.<br>5th November 1852.             | 652. JAMES HADDEN YOUNG, of 66, College Street, Camden Town, in the County of Middlesex, for an invention for—"Improvements in weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                           |



HAMPTON.  
5th November 1852.

653. CHARLES HAMPTON, of 61, Berwick Street, St. James's, in the County of Middlesex, for an invention for—"Improvements in pianofortes."

*Provisional protection only.*

WRIGHT.  
5th November 1852.

654. RICHARD WRIGHT, of Greenwich, in the County of Kent, for an invention for—"Improvements in shafts and plummer blocks."

*Letters Patent sealed.*

COUSENS.  
5th November 1852.

655. ROBERT BOOTY COUSENS, of 50, Halliford Street, in the County of Middlesex, for an invention for—"Improvements in machinery for cutting cork."

*Letters Patent sealed.*

DUNDONALD.  
5th November 1852.

656. ADMIRAL THE EARL OF DUNDONALD, of Belgrave Road, in the County of Middlesex, for an invention for—"Improving bituminous substances, thereby rendering them available for purposes to which they never heretofore have been successfully applied."

*Letters Patent sealed.*

MELVILLE.  
6th November 1852.

657. JOHN MELVILLE, of Porchester Terrace, in the County of Middlesex, Esquire, for an invention for—"Improvements in the application of iron, and of wood combined with iron or other substances, to buildings and other constructions."

*Letters Patent sealed.*

CORRY.  
CORRY.  
6th November 1852.

658. JOHN RYALL CORRY and JAMES BARRETT CORRY, of Queen Camel, in the County of Somerset, Leather Dressers and Glovers, for an invention for—"A new method of sewing gloves."

*Letters Patent sealed.*

GOSNELL.  
GOSNELL.  
GOSNELL.  
6th November 1852.

659. JOHN, EDWARD, and CHARLES GOSNELL, Brush Manufacturers, No. 12, Three King Court, Lombard Street, City, London, trading under the style or firm of John Gosnell and Company, for an invention for—"Certain improvements in brushes."

*Letters Patent sealed.*

NICHOL.  
6th November 1852.

660. JAMES NICHOL, of Edinburgh, Scotland, Bookseller, for an invention for—"Certain improvements in the process of graining or ornamenting surfaces and fabrics."

*Letters Patent sealed.*

FRITH.  
6th November 1852.

661. FRANCIS BYWATER FRITH, of Salford, in the County of Lancaster, Manager, for an invention for—"Certain improvements in machinery or apparatus for dressing, machining, and finishing velvets, velveteens, cords, beaverteens, and other descriptions of fustian goods."

*Provisional protection only.*

FAIRBAIRN.  
HARGRAVE.  
6th November 1852.

662. PETER FAIRBAIRN, of Leeds, in the County of York, Machinist, and JOHN HARGRAVE, of Kirkstall, in the said County, Manufacturer, for an invention for—"Certain improvements in machinery for opening, combing, and drawing wool, flax, and other fibrous materials."

*Letters Patent sealed.*

AUGIER.  
6th November 1852.

663. JOSEPH VICTOR AUGIER, of Rue de Chabrol No. 39, Paris, for an invention for—"Improvements in the manufacture of gas, and in the machinery or apparatus employed therein."

*Provisional protection only.*

PHILLIPS.  
6th November 1852.

664. JOHN ARTHUR PHILLIPS, of 8, Upper Stamford Street, Blackfriars, in the County of Surrey, for an invention for—"Improvements in purifying tin."

*Letters Patent sealed.*

CHANDLER.  
6th November 1852.

665. THOMAS HICKS CHANDLER, of Aldbourn, in the County of Wilts, for an invention for—"Improvements in hoes."

*Letters Patent sealed.*

BAILLIE.  
6th November 1852.

666. BENJAMIN BAILLIE, of 118, Wardour Street, Soho, in the County of Middlesex, for an invention for—"Improvements in apparatus for drawing off and registering the flow of fluids."

*Letters Patent sealed.*

DE LA RUE.  
WATERSTON.  
6th November 1852.

667. WILLIAM FREDERICK DE LA RUE, of Bunhill Row, in the County of Middlesex, and GEORGE WATERSTON, of Edinburgh, for an invention for—"Improvements in writing cases."

*Letters Patent sealed.*

DAY.  
LAYLEE.  
6th November 1852.

668. CHARLES FREDERICK DAY, of Ashford, Kent, and JOHN LAYLEE, of Rye, Sussex, for an invention for—"Certain improvements in sleepers and other parts of the permanent ways of railroads."

*Letters Patent sealed.*

MOREL.  
6th November 1852.

669. JACQUES MOREL, of Lyons, in the Republic of France, Pattern Drawer, for an invention for—"Improvements in figure weaving."—*A communication from Messrs. Godemard and Meynier.*

*Provisional protection only.*

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|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TROUPEAU.<br>8th November 1852.       | 670. CHARLES TROUPEAU, of Paris, for an invention for—"An improved diurnal reflector."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                     |
| WALKER.<br>8th November 1852.         | 671. GEORGE JAMES WALKER, of Norton Folgate, in the County of Middlesex, Carriage Builder, for an invention for—"Certain improvements in gigs and other carriages."<br><i>Provisional protection only.</i>                                                                                                  |
| CAREY.<br>8th November 1852.          | 672. STEPHEN CAREY, of Great Guilford Street, Southwark, in the County of Surrey, Builder, for an invention for—"Certain improvements in the construction of viaducts, arches, bridges, and other buildings, upon a non-expansion principle."<br><i>Letters Patent sealed.</i>                              |
| BRODIE.<br>8th November 1852.         | 673. JAMES BRODIE, of Bow of Fife, in the County of Fife, Scotland, Clerk, for an invention for—"Certain improvements in the propulsion of sea-going vessels."<br><i>Provisional protection only.</i>                                                                                                       |
| FAIRBAIRN.<br>8th November 1852.      | 674. PETER FAIRBAIRN, of Leeds, in the County of York, Machinist, for an invention for—"Certain improvements in the ordinary screw gill machinery, when applied to the purposes of drawing, combing, and heckling fibrous materials."<br><i>Letters Patent sealed.</i>                                      |
| CROWLEY.<br>8th November 1852.        | 675. JONATHAN SPARROW CROWLEY, of Lavender Hill, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in the means of or apparatus for working the signals and switches on railways."<br><i>Provisional protection only.</i>                                                         |
| NEWTON.<br>8th November 1852.         | 676. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of the carbonates of soda."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                           |
| ROBESON.<br>8th November 1852.        | 677. ANDREW ROBESON, junior, of Newport, in the State of Rhode Island and United States of America, for an invention for—"An improved mode of bowking or bucking cloth."<br><i>Letters Patent sealed.</i>                                                                                                   |
| Longbottom.<br>8th November 1852.     | 678. ROBERT ISAAC LONGBOTTOM, of Regent Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in preventing vibration in railway and other carriages, and in axles."<br><i>Provisional protection only.</i>                                                                     |
| HOGA.<br>8th November 1852.           | 679. STANISLAUS HOGA, of Nassau Street, in the County of Middlesex, Gentleman, for an invention for—"An instrument for ascertaining the existence of gold in the earth."<br><i>Provisional protection only.</i>                                                                                             |
| HENLEY.<br>9th November 1852.         | 680. WILLIAM THOMAS HENLEY, of St. John Street Road, London, Electrical Engineer, for an invention for—"Certain improvements in electric telegraphs, and in the apparatus and instruments connected therewith."<br><i>Complete specification; Letters Patent sealed.</i>                                    |
| HEATHCOTE.<br>9th November 1852.      | 681. JAMES ARNOLD HEATHCOTE, at present residing in Hackney, in the County of Middlesex, Mate in the Indian Navy, for an invention for—"Certain improvements in the mode of exhausting siphons or pipes for drawing off fluids."<br><i>Provisional protection only.</i>                                     |
| NEWTON.<br>9th November 1852.         | 682. MARK NEWTON, of Tottenham, in the County of Middlesex, Builder, for an invention for—"Certain improvements in the construction of carriages, and in the means of preventing the overturning of the same when horses take fright."— <i>A communication.</i><br><i>Provisional protection only.</i>      |
| ZIEGLER.<br>9th November 1852.        | 683. JEAN JACQUES ZIEGLER, of Guebwiller, in the department du Haut Rhin, in the Republic of France, Engineer, for an invention for—"Certain improvements in machinery for preparing to be spun, cotton, wool, silk, silk-waste, flax, tow, and other fibrous substances."<br><i>Letters Patent sealed.</i> |
| DUNN.<br>WATTS.<br>9th November 1852. | 684. THOMAS DUNN, of Pendleton, near Manchester, in the County of Lancaster, Engineer, and WILLIAM WATTS, junior, of Miles Platting, near Manchester aforesaid, Assistant Engineer, for an invention for—"Improvements in the construction of railways."<br><i>Letters Patent sealed.</i>                   |
| KNOWLES.<br>9th November 1852.        | 685. ROBERT KNOWLES, of Chorlton-upon-Medlock, in the County of Lancaster, Mechanic, for an invention for—"Certain improvements in boilers and apparatus for generating steam."<br><i>Letters Patent sealed.</i>                                                                                            |
| McCARTHY.<br>9th November 1852.       | 686. NELSON McCARTHY, of Cork, in the County of Cork, for an invention for—"Improvements in boots and shoes."<br><i>Letters Patent sealed.</i>                                                                                                                                                              |



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| WATERHOUSE.<br>9th November 1852. | 687. ALFRED WATERHOUSE, of the firm of Dakin and Company, St. Paul's Churchyard, London, for an invention for—"An improved filtering-pot."<br><i>Provisional protection only.</i>                                                                                           |
| OGILVIE.<br>9th November 1852.    | 688. GEORGE SHADFORTH OGILVIE, of Stapleton, near Bristol, in the County of Somerset, Gentleman, for an invention for—"Improvements in candlesticks and lamps."<br><i>Letters Patent sealed.</i>                                                                            |
| REVIS.<br>9th November 1852.      | 689. THOMAS REVIS, late of Cambridge, in the County of Cambridge, but now of Stockwell, in the County of Surrey, Agricultural Machinist, for an invention for—"Improved single seed drilling or dibbling machinery."<br><i>Provisional protection only.</i>                 |
| BOOTH.<br>9th November 1852.      | 690. JAMES C. BOOTH, of the City and County of Philadelphia, in the State of Pennsylvania, United States of America, Chemist, for an invention for—"Manufacturing chromate and bichromate of potash from chromic iron or chrome ore."<br><i>Letters Patent sealed.</i>      |
| GOSSAGE.<br>9th November 1852.    | 691. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in obtain sulphur from certain metallic sulphurets."<br><i>Letters Patent sealed.</i>                                                                |
| NEWTON.<br>9th November 1852.     | 692. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of axles or axletrees."<br><i>A communication. Letters Patent sealed.</i>                      |
| MABLEY.<br>9th November 1852.     | 693. WILLIAM TUDOR MABLEY, of Manchester, in the County of Lancaster, Patent Agent, for an invention for—"Improvements in ornamenting glass and other transparent or partially transparent substances for windows and for other purposes."<br><i>Letters Patent sealed.</i> |
| GRIFFIN.<br>9th November 1852.    | 694. CHARLES GRIFFIN, of Leamington Spa, in the County of Warwick, Gentleman, for an invention for—"Improvements in apparatus for fixing type or printing-surfaces in a chase."<br><i>Letters Patent sealed.</i>                                                            |
| EVANS.<br>9th November 1852.      | 695. ROBERT BUNCOMBE EVANS, of Colyton, in the County of Devon, for an invention for—"Improvements in the manufacture of charcoal."<br><i>Letters Patent sealed.</i>                                                                                                        |
| GORDON.<br>9th November 1852.     | 696. JOHN DOWN GORDON, of Eldon Street, Finsbury, in the County of Middlesex, Pianoforte Manufacturer, for an invention for—"Improvements in tuning pianofortes."<br><i>Letters Patent sealed.</i>                                                                          |
| HUSSEY.<br>9th November 1852.     | 697. OBED HUSSEY, of Manchester, in the County of Lancaster, for an invention for—"Improvements in reaping machines."<br><i>Partly a communication. Letters Patent sealed.</i>                                                                                              |
| HEDLEY.<br>9th November 1852.     | 698. OSWALD DODD HEDLEY, of Newcastle-upon-Tyne, for an invention for—"Improvements in getting coals and other minerals."<br><i>Letters Patent sealed.</i>                                                                                                                  |
| FOX.<br>10th November 1852.       | 699. CHARLES FOX, of Scarborough, in the county of York, Manufacturing Chemist, for an invention for—"Improvements in the extraction or rendering of oil from fatty or oleaginous matters."<br><i>Provisional protection only.</i>                                          |
| JOHNSON.<br>10th November 1852.   | 700. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in machinery or apparatus for sewing."<br><i>A communication. Provisional protection only.</i>             |
| GUINNESS.<br>10th November 1852.  | 701. JOHN G. GUINNESS, of Lisson Grove, London, Gentleman, for an invention for—"An improved mode of heating by air."<br><i>Provisional protection only.</i>                                                                                                                |
| POWELL.<br>10th November 1852.    | 702. JOSEPH TRINGHAM POWELL, of 28, Fenchurch Street, in the City of London, for an invention for—"Improvements in mixing, baking, and drying materials in the making of biscuits and other articles where plastic matters are employed."<br><i>Letters Patent sealed.</i>  |
| BABONEAU.<br>10th November 1852.  | 703. AUGUSTE BABONEAU, Manufacturer, of Paris, in the French Republic, for an invention for—"An improved apparatus for melting and mixing asphalt with bitumen and other substances."<br><i>Letters Patent sealed.</i>                                                      |
| GUÉRIN.<br>10th November 1852.    | 704. LOUIS GABRIEL GUÉRIN, Gentleman, of Paris, in the French Republic, for an invention for—"Improvements in fireplaces."<br><i>Provisional protection only.</i>                                                                                                           |

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| NICHOLLS.<br>11th November 1852.         | 705. ROBERT HAWKINS NICHOLLS, of Bedford, in the County of Bedford, Gentleman, for an invention for—"Stopping railway carriages."<br><i>Provisional protection only.</i>                                                                                                           |
| LUEDEKE.<br>11th November 1852.          | 706. ERNST LUEDEKE, of Bedford Street, Strand, in the County of Middlesex, Clockmaker, for an invention of—"Improvements in obtaining and applying motive-power."<br><i>Provisional protection only.</i>                                                                           |
| PROSSER.<br>11th November 1852.          | 707. RICHARD PROSSER, Civil Engineer, 18, Broad Street, Birmingham, in the County of Warwick, for an invention for—"Improvements in making of metal tubes."<br><i>Complete specification ; protection for SIX months only.</i>                                                     |
| PROSSER.<br>11th November 1852.          | 708. RICHARD PROSSER, Civil Engineer, 18, Broad Street, Birmingham, in the County of Warwick, for an invention for—"Improvements in rolling of metals."<br><i>Complete specification ; protection for SIX months only.</i>                                                         |
| LUCAS.<br>11th November 1852.            | 709. GEORGE LUCAS, of 42, Kennedy Street, Manchester, in the County of Lancaster, Engraver, for an invention of—"A composition for filling engraved cast or sunk letters, devices, or ornaments, on or in brass, zinc, or other metallic plates."<br><i>Letters Patent sealed.</i> |
| NOBLE.<br>11th November 1852.            | 710. JAMES NOBLE, of Leeds, in the County of York, Manufacturer, for an invention for—"Improvements in combing wool and other fibres."<br><i>Letters Patent sealed.</i>                                                                                                            |
| MATHER.<br>PLATT.<br>11th November 1852. | 711. COLIN MATHER and WILLIAM WILKINSON PLATT, of Salford Iron Works, Salford, in the County of Lancaster, Millwrights and Engineers, for an invention for—"Improvements in machinery for finishing linen, cotton, and other fabrics."<br><i>Letters Patent sealed.</i>            |
| SHARPS.<br>11th November 1852.           | 712. CHRISTIAN SHARPS, of Hartford, in the State of Connecticut, and United States of America, for an invention for—"Improvements in breech-loading fire-arms."<br><i>Letters Patent sealed.</i>                                                                                   |
| JOHNSON.<br>11th November 1852.          | 713. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for sewing and stitching."— <i>A communication.</i><br><i>Letters Patent sealed.</i>      |
| HUART.<br>11th November 1852.            | 714. HENRY HUART, of Cambrai, in the Republic of France, for an invention for—"Improvements in the storing and preservation of grain."<br><i>Letters Patent sealed.</i>                                                                                                            |
| WYPER.<br>11th November 1852.            | 715. JAMES COWAN WYPER, of Glasgow, in the County of Lanark, North Britain, Stationer, for an invention for—"Improvements in the figuring and ornamentation of book bindings and covers of a similar character."<br><i>Provisional protection only.</i>                            |
| BARNES.<br>11th November 1852.           | 716. RICHARD BARNES, of Wigan, in the County of Lancaster, Ironmonger and Brassfounder, for an invention for—"Improvements in cocks or plugs for water or other fluids."<br><i>Complete specification ; Letters Patent sealed.</i>                                                 |
| DAVIS.<br>11th November 1852.            | 717. WILLIAM DAVIS, of Leeds, in the County of York, Machinist, for an invention for—"Improvements in machinery for cutting files."<br><i>Letters Patent sealed.</i>                                                                                                               |
| MIDDLETON.<br>12th November 1852.        | 718. WILLIAM EDWARD MIDDLETON, of Birmingham, in the County of Warwick, Engineer, for an invention for—"A new or improved circular saw-bench."<br><i>Letters Patent sealed.</i>                                                                                                    |
| FOX.<br>12th November 1852.              | 719. SIR CHARLES FOX, Knight, of New Street, Spring Gardens, in the County of Middlesex, for an invention for—"Improvements in roads."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                   |
| FLETCHER.<br>12th November 1852.         | 720. HENRY FLETCHER, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in the application of electro-magnetism for the production of motive-power."<br><i>Provisional protection only.</i>                                                   |
| BLOOMER.<br>12th November 1852.          | 721. CALEB BLOOMER, of West Bromwich, in the County of Stafford, for an invention for—"Improvements in the manufacture of anchors."<br><i>Letters Patent sealed.</i>                                                                                                               |



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| KENDALL.<br>12th November 1852.    | 722. GEORGE KENDALL, of the City of Providence, in the State of Rhode Island, in the United States of America, Gentleman, for an invention for—"Certain improvements in apparatus to facilitate the manufacturing of mould candles."<br><i>Letters Patent sealed.</i>                                                                              |
| HENWOOD.<br>12th November 1852.    | 723. DANIEL HENWOOD, of Chalton Street, Somers Town, for an invention for—"Improvements in machinery for registering the number of passengers or persons entering public vehicles or vessels, theatres, bridges, or other places, where it may be desirable to ascertain the number of persons entering therein."<br><i>Letters Patent sealed.</i> |
| SEATON.<br>12th November 1852.     | 724. CHARLES SEATON, of Fitzroy Street, Fitzroy Square, Esquire, for an invention for—"Improvements in the manufacture of metal tubes, and in the machinery employed therein."<br><i>Letters Patent sealed.</i>                                                                                                                                    |
| BELLEVILLE.<br>12th November 1852. | 725. JULIEN FRANÇOIS BELLEVILLE, Manufacturer, of Paris, in the French Republic, for an invention for—"Improvements in generating steam for producing motive power or heat."<br><i>Letters Patent sealed.</i>                                                                                                                                      |
| JOHNSON.<br>12th November 1852.    | 726. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in reaping machines, and in apparatus connected therewith."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                               |
| JOHNSON.<br>12th November 1852.    | 727. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in measuring and registering the flow of fluids."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                         |
| STENSON.<br>12th November 1852.    | 728. GEORGE STENSON, of the Town and County of Northampton, Engineer, for an invention for—"Improvements in apparatus for separating gold from auriferous sand and earth."<br><i>Letters Patent sealed.</i>                                                                                                                                        |
| DAY.<br>12th November 1852.        | 729. THOMAS DAY, of Upper Mall, Hammersmith, in the County of Middlesex, Coal Merchant, for an invention for—"Improvements in landing and screening coals, and delivering them into sacks."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                               |
| PHILCOX.<br>13th November 1852.    | 730. GEORGE PHILCOX, Chronometer Maker, 3, Winchester Buildings, City, London, for an invention for—"Improvements in marine chronometers and other time-keepers."<br><i>Letters Patent sealed.</i>                                                                                                                                                 |
| DAVY.<br>13th November 1852.       | 731. EDWARD DAVY, of Crediton, in the County of Devon, Manufacturer and Merchant, for an invention for—"Improvements in the preparation of flax and hemp."<br><i>Letters Patent sealed.</i>                                                                                                                                                        |
| SMITH.<br>13th November 1852.      | 732. ROBERT JOHN SMITH, of Islington, in the County of Middlesex, Gentleman, for an invention for—"Certain improvements in machinery or apparatus for steering ships and other vessels."<br><i>Complete specification; Letters Patent sealed.</i>                                                                                                  |
| CABORN.<br>13th November 1852.     | 733. JOHN CABORN, of Denton, in the County of Lincoln, Agricultural Implement and Machine Manufacturer, for an invention for—"Improvements in corn thrashing and dressing machines."<br><i>Provisional protection only.</i>                                                                                                                        |
| CRESTADORO.<br>13th November 1852. | 734. PROFESSOR ANDREW CRESTADORO, of Genoa, in Italy, but now resident in Darlington Place, Vauxhall, in the County of Surrey, for an invention for—"Improvements in rapid communications between distant places and countries."<br><i>Provisional protection only.</i>                                                                            |
| LUCAS.<br>13th November 1852.      | 735. ROBERT LUCAS, of 3, Furnival's Inn, in the City of London, Mechanical Draughtsman, for an invention for—"Improved machinery to be used in the preparation of cotton and other fibrous materials for spinning."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                      |
| DEAR.<br>13th November 1852.       | 736. SOMERVILLE DEAR, of Leeds, in the County of York, Machine Maker, for an invention for—"Certain improvements in the arrangement and apparatus of looms for weaving centre or other large patterns or designs in linen, cotton, silk, wool, or other fibrous materials."<br><i>Letters Patent sealed.</i>                                       |
| PATERSON.<br>13th November 1852.   | 737. JOHN PATERSON, of Wood Street, in the City of London, Warehouseman, for an invention for—"Improvements in apparatus for shaping collars and other similar linen and cotton articles."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                |

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| HAWKESWORTH.<br>13th November 1852.           | 739. AMORY HAWKESWORTH, of Abbey Road, Torquay, in the County of Devon, for an invention for—"Improvements in life-boats."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                |
| DUNDONALD.<br>13th November 1852.             | 740. ADMIRAL THE EARL OF DUNDONALD, of the Belgrave Road, in the County of Middlesex, for an invention for—"Improvements in apparatus for laying telegraphic or galvanic wires in the earth."<br><i>Letters Patent sealed.</i>                                                                                                                                             |
| SEDGWICK.<br>13th November 1852.              | 741. SAMUEL SEDGWICK, of Piccadilly, in the County of Middlesex, for an invention for—"Improvements in lamps."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                            |
| GREAVES.<br>13th November 1852.               | 742. HUGH GREAVES, of Salford, near Manchester, in the County of Lancaster, Civil Engineer, for an invention for—"Improvements in the permanent way of railways."<br><i>Letters Patent sealed.</i>                                                                                                                                                                         |
| FORBES.<br>13th November 1852.                | 743. PETER FORBES, of Shettleston, in the County of Lanark, North Britain, Millwright, for an invention for—"Improvements in sowing or depositing seeds in the earth."<br><i>Letters Patent sealed.</i>                                                                                                                                                                    |
| EDMESTON.<br>EDMESTON.<br>15th November 1852. | 744. GRAY DENISON EDMESTON, of Salford, in the County of Lancaster, Engineer and Millwright, and THOMAS EDMESTON, of Crow Oaks, Pilkington, in the same County, Calenderman, for an invention for—"Certain improvements in steam engines, which improvements are also applicable to the regulating of water-wheels or similar machinery."<br><i>Letters Patent sealed.</i> |
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| COWEN.<br>RICHARDSON.<br>15th November 1852.  | 746. JOSEPH COWEN, of Blaydon Burn, near Newcastle-upon-Tyne, and THOMAS RICHARDSON, of Newcastle upon-Tyne, for an invention for—"Improvements in the manufacture of sulphuric acid."<br><i>Letters Patent sealed.</i>                                                                                                                                                    |
| REYBURN.<br>15th November 1852.               | 747. ROBERT REYBURN, of Greenock, in the County of Renfrew, for an invention for—"Improvements in the composition of lozenges and other confections."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                     |
| DUMÉRY,<br>15th November 1852.                | 748. CONSTANT JOUFFROY DUMÉRY, of Paris, in the Republic of France, Civil Engineer, for an invention for—"Certain improvements in the manufacture of metallic pipes and tubes, and in the machinery employed therein."<br><i>Letters Patent sealed.</i>                                                                                                                    |
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| MIRAND.<br>15th November 1852.                | 750. JOHN MIRAND, of Paris, in the Republic of France, and of 16, Castle Street, Holborn, London, for an invention for—"Certain improvements in the construction of electric apparatus for transmitting intelligence."<br><i>Letters Patent sealed.</i>                                                                                                                    |
| FONTAINE-MOREAU.<br>15th November 1852.       | 751. PETER ARMAND LE COMTE DE FONTAINE-MOREAU, of 39, Rue de l'Echiquier, Paris, and of 4, South Street, Finsbury, London, Patent Agent, for an invention for—"Certain Improvements in lamps."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                   |
| BERRY.<br>15th November 1852.                 | 752. GEORGE BERRY, of No. 19, Buttesland Street, St. Leonard's, Shoreditch, in the County of Middlesex, for an invention for—"An improved method of roasting coffee."<br><i>Provisional protection only.</i>                                                                                                                                                               |
| SANDIFORD.<br>15th November 1852.             | 753. ROBERT SANDIFORD, of Tottington Lower-end, near Bury, in the County of Lancaster, Calico Printer, for an invention for—"Certain improvements in apparatus for block-printing."<br><i>Letters Patent sealed.</i>                                                                                                                                                       |
| RAE.<br>15th November 1852.                   | 754. WILLIAM FRASER RAE, of Edinburgh, in the County of Mid Lothian, Brassfounder, for an invention for—"Improvements in gas heating and cooking apparatus."<br><i>Letters Patent sealed.</i>                                                                                                                                                                              |
| ROBERTSON.<br>15th November 1852.             | 755. JAMES ROBERTSON, of Glasgow, in the County of Lanark, North Britain, Cooper, for an invention for—"Improvements in the manufacture of casks and other wooden vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                                               |



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| JENNINGS.<br>15th November 1852.      | 756. FRANCIS MONTGOMERY JENNINGS, of Cork, in the Kingdom of Ireland, Manufacturing Chemist, for an invention for—"Improvements in preparing flax, hemp, China grass, and other vegetable fibrous substances." <i>Letters Patent sealed.</i>                                                                                                                                                                                                           |
| TAYLOR.<br>15th November 1852.        | 757. THOMAS TAYLOR, of the Patent Saw Mills, Manchester, in the County of Lancaster, for an invention for—"Improvements in apparatus for measuring water and other fluids, which apparatus is also applicable to the purpose of obtaining motive-power." <i>Letters Patent sealed.</i>                                                                                                                                                                 |
| NEWTON.<br>15th November 1852.        | 758. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in knitting machinery."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                                                                                                |
| ROGERS.<br>15th November 1852.        | 759. ABRAHAM ROGERS, of Field House, near Bradford, in the County of York, for an invention for—"Improvements in apparatus used for forming sewers, tunnels, and ways." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                  |
| GOODMAN.<br>15th November 1852.       | 760. JOHN DENT GOODMAN, of Birmingham, in the County of Warwick, Merchant, for an invention for—"Improvements in the boxes and axles for carriages."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                            |
| HOLT.<br>15th November 1852.          | 761. SAMUEL HOLT, of Stockport, Cheshire, Foreman to Messrs. Christy & Co., of the same place, and of Gracechurch Street, London, for an invention for—"Improvements in weaving cut-piled fabrics." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                      |
| BURLEY.<br>15th November 1852.        | 762. JOSEPH BURLEY, of Halifax, in the County of York, Mechanic, for an invention for—"Improvements in apparatus for cutting fustians and other fabrics to obtain a cut-pile surface." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                   |
| EDWARDS.<br>16th November 1852.       | 763. JOSEPH SLATTERIE EDWARDS, Corn and Flour Factor, Albion Mills, 233 and 234, Blackfriars Road, London, for an invention for—"A self-acting pea-kiln or apparatus for moving grain, pulse, seeds, malt, or any similar substances, while drying, which ensures a more rapid dessication, and requires scarcely any of the manual labor now employed in kilns, to be propelled by steam, water, or horse power." <i>Provisional protection only.</i> |
| CHRIPPES.<br>16th November 1852.      | 764. THOMAS CHRIPPES the younger, of Petworth, in the County of Sussex, Auctioneer and Land Agent, for an invention for—"Improvements in the means of tilling land." <i>Provisional protection only.</i>                                                                                                                                                                                                                                               |
| JOHNSON.<br>16th November 1852.       | 765. JOSEPH JOHNSON, of Wellington Quay, Dublin, for an invention for—"An improved mode of producing ornamental articles, such as brooches, bracelets, dressing and other cases, work or other boxes, or other like articles, from a certain kind of wood." <i>Letters Patent sealed.</i>                                                                                                                                                              |
| MARSDEN.<br>16th November 1852.       | 766. WILLIAM MARSDEN, of Blackburn, in the County of Lancaster, Cotton Manufacturer, for an invention for—"Certain improvements in, and applicable to, looms for weaving." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                               |
| RAMSBOTTOM.<br>16th November 1852.    | 767. JOHN RAMSBOTTOM, of Longsight, near Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in steam-engines." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                 |
| LEA.<br>HUNT.<br>16th November 1852.  | 768. JOHN WHEELLEY LEA, of the City of Worcester, Chemist, and WILLIAM HUNT, of Stoke Prior, in the County of Worcester, Manufacturing Chemist, for an invention for—"Improvements in utilizing the waste heat of coke furnaces." <i>Letters Patent sealed.</i>                                                                                                                                                                                        |
| VALLÉE.<br>16th November 1852.        | 769. FRANÇOIS VALLÉE, of Bruxelles, in the Kingdom of Belgium, Manufacturer, for an invention for—"Improvements in preparing, spinning, and doubling flax, cotton, wool, silk, and other fibrous materials." <i>Letters Patent sealed.</i>                                                                                                                                                                                                             |
| O'KEEFFE.<br>16th November 1852.      | 770. JOHN O'KEEFFE, of Liverpool, in the County of Lancaster, Rose Engine Turner, for an invention for—"A method for making watch-cases by machinery." <i>Provisional protection only.</i>                                                                                                                                                                                                                                                             |
| WAY.<br>PAINE.<br>17th November 1852. | 771. JOHN THOMAS WAY, of Holles Street, Cavendish Square, in the County of Middlesex, Professor of Chemistry, and JOHN MANWARING PAINE, of Farnham, in the County of Surrey, Gentleman, for an invention for—"Improvements in the manufacture of burned and fired ware." <i>Letters Patent sealed.</i>                                                                                                                                                 |

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| BELL.<br>17th November 1852.                | 772. ISAAC LOWTHIAN BELL, of the Washington Chemical Works, Newcastle-upon-Tyne, for an invention for—"Improvements in the treatment of certain compounds of iron and sulphur."<br><i>Letters Patent sealed.</i>                                                                                                            |
| RUSSELL.<br>17th November 1852.             | 773. HENRY RUSSELL, of the City of Norwich, Pianoforte Maker, for an invention for—"Improvements in pianofortes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                          |
| HINCHCLIFF.<br>SALT.<br>17th November 1852. | 774. JOHN HINCHCLIFF, of Leeds, in the County of York, Engineer, and RALPH SALT, of Leeds aforesaid, Engineer, for an invention for—"Improvements in steam engines."<br><i>Letters Patent sealed.</i>                                                                                                                       |
| FONTAINE-MOREAU.<br>17th November 1852.     | 775. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of No. 4, South Street, Finsbury, in the County of Middlesex, and 39, Rue de l'Echiquier, Paris, Patent Agent, for an invention for—"Certain improvements in weaving elastic tissues."— <i>A communication.</i><br><i>Provisional protection only.</i>                       |
| BRESSON.<br>17th November 1852.             | 776. FRANCIS BRESSON, Civil Engineer, of Paris, in the Republic of France, and 4, South Street, Finsbury, London, for an invention for—"A new and improved mode of propelling on land and water."<br><i>Letters Patent sealed.</i>                                                                                          |
| WATT.<br>17th November 1852.                | 777. WILLIAM WATT, of Glasgow, in the County of Lanark, North Britain, Chemist, for an invention for—"Improvements in preparing for weaving, and in weaving flax and other textile materials."<br><i>Provisional protection only.</i>                                                                                       |
| PHYSICK.<br>17th November 1852.             | 778. HENRY VERNON PHYSICK, of Aberdeen Place, Maida Hill, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in electric telegraphic apparatus, and in machinery or apparatus for constructing the same."<br><i>Letters Patent sealed.</i>                                                      |
| ROCK.<br>19th November 1852.                | 779. JAMES ROCK the younger, of Hastings, in the County of Sussex, Carriage-builder, for an invention for—"Improvements in buffers."<br><i>Provisional protection only.</i>                                                                                                                                                 |
| POTTER.<br>19th November 1852.              | 780. JAMES POTTER, of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery for spinning cotton and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                                                                |
| HUME.<br>19th November 1852.                | 781. JAMES HUME, of Birkenhead, in the County of Chester, Plumber, for an invention for—"Improvements in water-closets."<br><i>Letters Patent sealed.</i>                                                                                                                                                                   |
| VERNON.<br>EDGE.<br>19th November 1852.     | 782. JOHN VENABLES VERNON and JOHN EDGE, both of Manchester, in the County of Lancaster, Engravers to Calico-printers, for an invention for—"Improvements in apparatus and machinery for engraving rollers of glass, copper, brass, and other metallic compounds."<br><i>Letters Patent sealed; no specification filed.</i> |
| HAMILTON.<br>19th November 1852.            | 783. GEORGE HAMILTON, of Paisley, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in spreading or distributing starch, gum, and other semi-fluid matters."<br><i>Provisional protection only.</i>                                                                                     |
| WALKER.<br>19th November 1852.              | 784. ROBERT WALKER, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in the construction of portable houses and other erections."<br><i>Letters Patent sealed.</i>                                                                                                          |
| CARMICHAEL.<br>19th November 1852.          | 785. PETER CARMICHAEL, of Dens Works, Dundee, in the County of Forfar, for an invention for—"Improvements in machinery for winding yarn or thread."<br><i>Letters Patent sealed.</i>                                                                                                                                        |
| BURGESS.<br>19th November 1852.             | 786. JOHN BURGESS, of Rastrick, in the Parish of Halifax, in the County of York, Dyer, for an invention for—"An improvement in dyeing wool."<br><i>Letters Patent sealed.</i>                                                                                                                                               |
| POOLE.<br>19th November 1852.               | 787. MOSES POOLE, of Serle Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of seamless garments and other seamless fabrics."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                 |
| WILLIAMS.<br>19th November 1852.            | 788. WILLIAM WILLIAMS, of Birmingham, in the County of Warwick, Patentee of electric telegraphs, for an invention for—"Improvements in electric telegraphs."<br><i>Letters Patent sealed.</i>                                                                                                                               |
| TEWKSBUURY.<br>19th November 1852.          | 789. GEORGE PERRY TEWKSBUURY, of Boston, in the State of Massachusetts, of the United States of America, for an invention for—"An improved life-preserving seat."<br><i>Letters Patent sealed.</i>                                                                                                                          |



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| NICKELS.<br>19th November 1852.   | 790. BENJAMIN NICKELS, of 13, Albany Road, in the County of Surrey, for an invention for—"Improvements in the manufacture of adhesive plaster."<br><i>Letters Patent sealed.</i>                                                                                                                   |
| DAY.<br>19th November 1852.       | 791. RICHARD KEMSLEY DAY, of White Cottage, Plaistow, in the County of Essex, for an invention for—"Improvements in the manufacture of fuel for lighting fires."<br><i>Letters Patent sealed.</i>                                                                                                  |
| DE BERGUE.<br>19th November 1852. | 792. CHARLES DE BERGUE, of Dowgate Hill, in the City of London, for an invention for—"Improvements in the permanent way of railways."<br><i>Provisional protection only.</i>                                                                                                                       |
| JOHNSON.<br>19th November 1852.   | 793. JOHN ROBERT JOHNSON, of Stanbrook Cottage, Hammersmith, in the County of Middlesex, for an invention for—"Improvements in the manufacture of type or raised surfaces for printing."<br><i>Letters Patent sealed.</i>                                                                          |
| POOLE.<br>19th November 1852.     | 794. MOSES POOLE, of Serle Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in cementing matters in the production of ornamental and other forms and surfaces."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                         |
| BESSEMER.<br>19th November 1852.  | 795. HENRY BESSEMER, of Baxter House, Old St. Pancras Road, in the County of Middlesex, for an invention for—"Improvements in apparatus for concentrating cane-juices and other saccharine solutions, and in the treatment of such fluids."<br><i>Letters Patent sealed.</i>                       |
| BESSEMER.<br>19th November 1852.  | 796. HENRY BESSEMER, of Baxter House, Old St. Pancras Road, in the County of Middlesex, for an invention for—"Improvements in the crystallization and manufacture of sugar."<br><i>Letters Patent sealed.</i>                                                                                      |
| BESSEMER.<br>19th November 1852.  | 797. HENRY BESSEMER, of Baxter House, Old St. Pancras Road, in the County of Middlesex, for an invention for—"Improvements in the treatment of washed or cleansed sugar."<br><i>Letters Patent sealed.</i>                                                                                         |
| PIERRARD.<br>19th November 1852.  | 798. JEAN JOSEPH JULES PIERRARD, Manufacturer, of Paris, in the French Republic, for an invention for—"Improvements in preparing wool and other fibrous substances for combing."<br><i>Letters Patent sealed.</i>                                                                                  |
| BESSEMER.<br>19th November 1852.  | 799. HENRY BESSEMER, of Baxter House, Old St. Pancras Road, in the County of Middlesex, for an invention for—"Improvements in apparatus for concentrating saccharine fluids."<br><i>Letters Patent sealed.</i>                                                                                     |
| TAYLOR.<br>20th November 1852.    | 800. RICHARD TAYLOR, of Clayton Bridge, Newton Heath, near Manchester, in the County of Lancaster, Calico-printer, for an invention for—"Certain improvements in heating dye-cisterns and soap-cisterns used in the process of calico-printing."<br><i>Letters Patent sealed.</i>                  |
| TRESTRAIL.<br>20th November 1852. | 801. JOHN TRESTRAIL, of Southampton, in the County of Hants, for an invention for—"Improvements in raising sunken vessels or other materials from under the water or in the sea or to prevent them from sinking."<br><i>Letters Patent sealed.</i>                                                 |
| COLLINS.<br>20th November 1852.   | 802. JOHN BRETTELL COLLINS, of Birmingham, Factor, for an invention for—"A new or improved flooring-cramp or lifting-jack."<br><i>Letters Patent sealed.</i>                                                                                                                                       |
| NASMYTH.<br>20th November 1852.   | 803. JAMES NASMYTH, of Patricroft, near Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in machinery or apparatus for packing and compressing cotton-wool and other substances."<br><i>Letters Patent sealed.</i>                                     |
| ELLIS.<br>20th November 1852.     | 804. THOMAS ELLIS, senior, of Tredgar Iron Works, in the County of Monmouthshire, Engineer, for an invention for—"An improvement or improvements in constructing a metallic band or bands for raising and lowering heavy weights, and other like purposes."<br><i>Provisional protection only.</i> |
| EDWARDS.<br>20th November 1852.   | 805. JOSEPH EDWARDS, of King's College, London, Master of Arts, for an invention for—"An improved envelope, and the means of affording additional security to the same."<br><i>Provisional protection only.</i>                                                                                    |
| DRAY.<br>20th November 1852.      | 806. WILLIAM DRAY, of the firm of William Dray and Company, of Swan Lane, in the City of London, Agricultural Implement Makers, for an invention for—"Improvements in machinery for crushing, bruising, and pulverizing."<br><i>Letters Patent sealed.</i>                                         |
| GOTY.<br>20th November 1852.      | 807. CHARLES GOTY, of Rathbone Place, Oxford Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in pumps for raising and forcing liquids."<br><i>Provisional protection only.</i>                                                                                   |

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| WILSON.<br>20th November 1852.              | 808. GEORGE WILSON, of the York Glass Company, in the City of York, for an invention for—"An improved manufacture of glass bottles and jars."<br><i>Letters Patent sealed.</i>                                                                                                                                                          |
| GREEN.<br>20th November 1852.               | 809. WILLIAM GREEN, of Islington, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture of textile fabrics, and in machinery or apparatus for effecting the same, parts of which improvements are also applicable to printing and embossing generally."<br><i>Letters Patent sealed.</i>          |
| BATES.<br>22nd November 1852.               | 810. EDWIN BATES, Geometer, of No. 7, Great Portland Street, Portland Place, Middlesex, for an invention for—"The revolver, a perfect self-righting whale-fishing, pilot, or other boat, to be called 'Bate's Life-boat' (No. 1 of a series of naval architecture)."<br><i>Provisional protection only.</i>                             |
| WALKER.<br>BESTWICK.<br>22nd November 1852. | 811. BENJAMIN WALKER and WILLIAM BESTWICK, of Salford, in the County of Lancaster, Braid Manufacturers, for an invention for—"Improvements in the manufacture of braid, and in machinery or apparatus employed therein."<br><i>Letters Patent sealed.</i>                                                                               |
| CROSSKILL.<br>22nd November 1852.           | 812. WILLIAM CROSSKILL, of Beverley, in the County of York, Civil Engineer and Iron-founder, for an invention for—"Improvements in clod-crushers, or rollers for rolling, crushing, or pressing land."<br><i>Letters Patent sealed.</i>                                                                                                 |
| WEEMS.<br>22nd November 1852.               | 813. JOHN WEEMS, of Johnstone, in the County of Renfrew, North Britain, Tinsmith, for an invention for—"Improvements in obtaining motive-power."<br><i>Letters Patent sealed.</i>                                                                                                                                                       |
| HEGGIE.<br>22nd November 1852.              | 814. ROBERT HEGGIE, of Kirkcaldy, in the County of Fife, North Britain, Manufacturer, for an invention for—"Improvements in railway-brakes."<br><i>Letters Patent sealed.</i>                                                                                                                                                           |
| LEA.<br>HUNT.<br>22nd November 1852.        | 815. JOHN WHEELEY LEA, of the City of Worcester, Chemist, and WILLIAM HUNT, of Stoke Prior, in the County of Worcester, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of iron."<br><i>Letters Patent sealed.</i>                                                                                         |
| NEWTON.<br>22nd November 1852.              | 816. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of paper."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                        |
| PEPPER.<br>22nd November 1852.              | 817. JOHN PEPPER, junior, of Portsmouth, in the State of New Hampshire, of the United States of America, for an invention for—"A new or improved machine for knitting ribbed work."<br><i>Letters Patent sealed.</i>                                                                                                                    |
| HEDGES.<br>22nd November 1852.              | 818. WILLIAM HEDGES, of Streatham Hill, in the County of Surrey, for an invention for—"Improvements in carriages."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                     |
| ROOSE.<br>22nd November 1852.               | 819. JAMES ROOSE, of Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of welded iron tubes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                |
| HUNTER.<br>22nd November 1852.              | 820. SAMUEL HUNTER, of 13, Ravensworth Terrace, Gateshead, in the County of Durham, for an invention for—"Improvements in anchors."<br><i>Letters Patent sealed.</i>                                                                                                                                                                    |
| BLAIN.<br>22nd November 1852.               | 821. JOSEPH BLAIN, of Paris, France, and of 16, Castle Street, Holborn, City, London, for an invention for—"A new system of corking."<br><i>Provisional protection only.</i>                                                                                                                                                            |
| EADE.<br>23rd November 1852.                | 822. GEORGE EADE, of No. 33, Stanhope Street, Hampstead Road, Agent, for an invention for—"A surface-and-subaqueous floating breakwater."— <i>A communication from Andrew Thorndike of Castel, Germany.</i><br><i>Provisional protection only.</i>                                                                                      |
| BELLFORD.<br>23rd November 1852.            | 823. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, Patent Agent, for an invention for—"Improvements in drying-furnaces."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                  |
| WINTER.<br>23rd November 1852.              | 824. JOHN WINTER, of Bradford, in the West Riding of the County of York, Engineer, for an invention for—"Improvements in the mode of combining bars of iron so as to form larger masses or pieces of iron applicable in the manufacture of axles, shafts, columns, beams, cannon, and other articles."<br><i>Letters Patent sealed.</i> |
| WINTER.<br>23rd November 1852.              | 825. JOHN WINTER, of Bradford, in the West Riding of the County of York, Engineer, for an invention for—"Improvements in the manufacture of wheels."<br><i>Letters Patent sealed.</i>                                                                                                                                                   |



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| FRITH.<br>23rd November 1852.                | 826. FRANCIS BYWATER FRITH, of Salford, in the County of Lancaster, Manager, for an invention for—"Certain improvements in machinery or apparatus for dressing, machining, and finishing velvets, velveteens, cords, beaverteens, and other similar fabrics composed of cotton, silk, wool, and other fibrous materials."<br><i>Letters Patent sealed.</i>              |
| KILNER.<br>23rd November 1852.               | 827. JOHN KILNER, of Thornhill Lees, near Dewsbury, in the County of York, Glass-bottle Manufacturer, for an invention for—"Certain improvements in the means of insulating the wires of electric telegraphs."<br><i>Letters Patent sealed.</i>                                                                                                                         |
| PARNELL.<br>23rd November 1852.              | 828. MICHAEL LEOPOLD PARNELL, of Little Queen Street, Holborn, in the County of Middlesex, Lock Manufacturer, for an invention for—"An improvement in the construction of box-staples and striking-plates."<br><i>Letters Patent sealed.</i>                                                                                                                            |
| GRISDALE.<br>23rd November 1852.             | 829. JOHN EDWIN GRISDALE, of 2, Bloomsbury Street, Holborn, in the County of Middlesex, Gentleman, for an invention for—"Improvements in steering ships or vessels."<br><i>Provisional protection only.</i>                                                                                                                                                             |
| ARMITAGE.<br>THAXTER.<br>23rd November 1852. | 830. JAMES ARMITAGE, of Bury, in the County of Huntingdon, Machine Maker, and CHARLES THAXTER, of Fenton, in the same County, Brick Maker, for an invention for—"Improvements in dies for moulding plastic materials."<br><i>Letters Patent sealed.</i>                                                                                                                 |
| NEWTON.<br>23rd November 1852.               | 831. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of, and method of applying, brakes to railroad carriages, engines, and tenders, for the purpose of preventing collisions."— <i>A communication.</i><br><i>Letters Patent sealed.</i>       |
| BEALE.<br>23rd November 1852.                | 832. JOHN BEALE, of East Greenwich, in the County of Kent, Engineer, for an invention for—"An improved arrangement of steam-engine, and an improved packing to be used therein."<br><i>Letters Patent sealed.</i>                                                                                                                                                       |
| FREARSON.<br>23rd November 1852.             | 833. JOHN FREARSON, of Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of hooks for garments."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                             |
| WATT.<br>23rd November 1852.                 | 834. CHARLES WATT, of Brompton, in the County of Middlesex, for an invention for—"Improvements in obtaining currents of electricity."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                  |
| BARKER.<br>23rd November 1852.               | 835. JOHN BARKER, of Richmond, in the County of Surrey, Physician, for an invention for—"Improvements in separating gold from quartz or matters containing that metal."<br><i>Provisional protection only.</i>                                                                                                                                                          |
| OLDHAM.<br>24th November 1852.               | 836. WILLIAM OLDHAM, of Southam, in the County of Warwick, Farmer, for an invention for—"An improved dibble drill."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                    |
| FORDER.<br>24th November 1852.               | 837. AUGUSTUS TURK FORDER, of Leamington Priors, in the County of Warwick, Solicitor, for an invention for—"Improvements in fenders for railway-carriages."<br><i>Letters Patent sealed.</i>                                                                                                                                                                            |
| CARTER.<br>24th November 1852.               | 838. JAMES CARTER, of Trump Street, in the City of London, Manufacturer, for an invention for—"Improvements in the manufacture of certain articles of dress or apparel."<br><i>Letters Patent sealed.</i>                                                                                                                                                               |
| HIGGIN.<br>24th November 1852.               | 839. JAMES HIGGIN, of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of certain mordants used in preparing woven or textile fabrics for printing, staining, or dyeing them, and in the mode or method of using the same or other mordants for the said purpose."<br><i>Letters Patent sealed.</i> |
| GEDGE.<br>24th November 1852.                | 840. JOHN GEDGE, of No. 4, Wellington Street, Strand, in the County of Middlesex, Patent Agent, for an invention for—"An improved self-regulating artificial incubator."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                      |
| FONTAINE MOREAU.<br>24th November 1852.      | 841. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"Improvements in machinery for manufacturing fishing and other nets."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                     |



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| BRACKENBURY.<br>24th November 1852.         | 842. AUGUSTUS BRACKENBURY, of No. 49, Harwood Street, Camden Town, in the Parish of St. Pancras, in the County of Middlesex, for an invention for—"Making an electrifying machine of materials not hitherto used for such a purpose."<br><i>Provisional protection only.</i> |
| CASELLI.<br>24th November 1852.             | 843. HENRY RICHARDS CASELLI, of Deptford, in the County of Kent, Block and Mast Maker, for an invention for—"Improvements in the construction of anchors."<br><i>Provisional protection only.</i>                                                                            |
| GREENWOOD.<br>24th November 1852.           | 844. RICHARD GREENWOOD, of Sutton, near Keighley, in the County of York, for an invention for—"Certain improvements in warming the upper rooms of houses."<br><i>Provisional protection only.</i>                                                                            |
| COCHRANE.<br>24th November 1852.            | 845. JOHN RICHARD COCHRANE, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in the manufacture or production of ornamental or figured fabrics."<br><i>Provisional protection only.</i>                                  |
| COMBRES.<br>24th November 1852.             | 846. JOSEPH HENRI COMBRES, of No. 14, Rue de Pretres, in the City of Paris, for an invention for—"Preventing the ill effects of dampness on walls and dwellings."<br>—A communication. <i>Letters Patent sealed.</i>                                                         |
| THOMSON.<br>24th November 1852.             | 847. HENRY THOMSON, of Clitheroe, in the County of Lancaster, Calico Printer, for an invention for—"Improvements in apparatus to be used in dyeing, bleaching, and other processes in which goods are operated upon in the piece."<br><i>Letters Patent sealed.</i>          |
| FINLAYSON.<br>24th November 1852.           | 848. CHARLES FINLAYSON, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in apparatus for heating, drying, and ventilating."<br><i>Letters Patent sealed.</i>                                                                         |
| SEPTEUIL.<br>24th November 1852.            | 849. ACHILLE JEAN LOUIS HYPOLITE TOURTEAU, COMTE DE SEPTEUIL, of Paris, in the Republic of France, for an invention for—"Improvements in the construction of electro-magnetic engines, and in batteries."<br><i>Provisional protection only.</i>                             |
| WINCHESTER.<br>24th November 1852.          | 850. WILLIAM HENRY WINCHESTER, of Tamerton Foliot, near Plymouth, in the County of Devon, and of Berners Street, in the County of Middlesex, Surgeon, for an invention for—"Improvements in splints."<br><i>Letters Patent sealed.</i>                                       |
| WILKINSON.<br>24th November 1852.           | 851. WILLIAM WILKINSON, of the Town and County of Nottingham, Framework Knitter, for an invention for—"Improvements in the manufacture of looped and textile fabrics, and in machinery for producing the same."<br><i>Letters Patent sealed.</i>                             |
| JOLY.<br>24th November 1852.                | 852. ALPHONSE JOLY, of Paris, in the Republic of France, Civil Engineer, for an invention for—"Certain improvements in steam engines."<br><i>Provisional protection only.</i>                                                                                                |
| SPALDING.<br>24th November 1852.            | 853. STEPHEN SPALDING, of Hogsthorp, near Alford, in the County of Lincolnshire, for an invention for—"An apparatus or machine for the manufacture of pan tiles used in building purposes."<br><i>Letters Patent sealed.</i>                                                 |
| AITCHISON.<br>EVANS.<br>24th November 1852. | 854. EDWARD AITCHISON, Lieutenant in the Royal Navy, of 14, Manor Street, Chelsea, and JOHN EVANS, of 8, Hamilton Street, Wandsworth Road, Boiler Maker, for an invention for—"Improvements in furnaces."<br><i>Letters Patent sealed.</i>                                   |
| GLOVER.<br>24th November 1852.              | 855. ROBERT MORTIMER GLOVER, of Newcastle-upon-Tyne, M.D., for an invention for—"Improvements in coating the bottoms and other parts of ships and vessels, in order to prevent animal and vegetable growth in contact therewith."<br><i>Letters Patent sealed.</i>           |
| DUDGEON.<br>25th November 1852.             | 856. RICHARD DUDGEON, of New York, in the United States of America, Machinist, for an invention for—"Raising heavy weights by means of a portable hydraulic press."<br><i>Letters Patent sealed.</i>                                                                         |
| GEDGE.<br>25th November 1852.               | 857. JOHN GEDGE, of No. 4, Wellington Street, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the mechanism of looms for weaving."<br>—A communication. <i>Complete specification; Letters Patent sealed.</i>                        |
| TATHAM.<br>CHEETHAM.<br>25th November 1852. | 858. JOHN TATHAM and DAVID CHEETHAM, of Rochdale, in the County of Lancaster, Machine Makers, for an invention for—"Improvements in machinery or apparatus for preparing, spinning, and doubling cotton and other fibrous substances."<br><i>Letters Patent sealed.</i>      |
| BENNETT.<br>25th November 1852.             | 859. THOMAS BENNETT, of West Bromwich, in the County of Stafford, for an invention for—"Improvements in heating air for blast-furnaces."<br><i>Provisional protection only.</i>                                                                                              |



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| <p>HALL.<br/>25th November 1852.</p>                 | <p>860. WILLIAM HALL, of the Town and County of the Town of Nottingham, Cabinet Maker, for an invention for—"Improvements in rotary steam-engines, governors, and apparatus for supplying boilers with water, and for regulating the same."<br/><i>Letters Patent sealed.</i></p>                               |
| <p>MURDOCH.<br/>25th November 1852.</p>              | <p>861. JAMES MURDOCH, of Staple Inn, in the County of Middlesex, Patent Agent, for an invention for—"An improved machine for shaping staves for casks, vats, and other similar vessels."—<i>A communication.</i><br/><i>Provisional protection only.</i></p>                                                   |
| <p>JEFFREY.<br/>25th November 1852.</p>              | <p>862. ANDREW JEFFREY, of Chirnside, in the County of Berwick, Scotland, Blacksmith, for an invention for—"Improvements in reaping machines."<br/><i>Letters Patent sealed; no specification filed.</i></p>                                                                                                    |
| <p>HOLLAND.<br/>25th November 1852.</p>              | <p>863. HENRY HOLLAND, of Birmingham, in the County of Warwick, Umbrella and Parasol Manufacturer, for an invention for—"Improvements in the manufacture of umbrellas and parasols."<br/><i>Letters Patent sealed.</i></p>                                                                                      |
| <p>DELFOSE.<br/>25th November 1852.</p>              | <p>864. MAXIMILIAN FRANÇOIS JOSEPH DELFOSE, of Moorgate Street, in the City of London, Gentleman, for an invention for—"Improvements in preserving wood, stuffs, and other fabrics, and in rendering them unflammable."—<i>A communication.</i><br/><i>Provisional protection only.</i></p>                     |
| <p>HARFORD.<br/>25th November 1852.</p>              | <p>865. CHARLES HARFORD, of Down Place, near Windsor, in the County of Berks, Esquire, for an invention for—"Improvements in rotatory engines."<br/><i>Letters Patent sealed.</i></p>                                                                                                                           |
| <p>ROBERTSON.<br/>25th November 1852.</p>            | <p>866. JAMES ROBERTSON, of Glasgow, in the County of Lanark, North Britain, Cooper, for an invention for—"Improvements in furnaces or fireplaces."<br/><i>Provisional protection only.</i></p>                                                                                                                 |
| <p>ILES.<br/>25th November 1852.</p>                 | <p>867. CHARLES ILES, of Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of chimney-pieces."<br/><i>Letters Patent sealed.</i></p>                                                                                                                                  |
| <p>RÉMOND.<br/>26th November 1852.</p>               | <p>868. AMÉDÉE FRANÇOIS RÉMOND, of Birmingham, in the County of Warwick, for an invention for—"A new or improved lock."—<i>A communication.</i><br/><i>Provisional protection only.</i></p>                                                                                                                     |
| <p>OGDEN.<br/>OGDEN.<br/>26th November 1852.</p>     | <p>869. ADAM OGDEN, of Huddersfield, in the County of York, Machine Maker, and JOHN OGDEN, of Hey Chapel, Ashton-under-Lyne, in the County of Lancaster, Manager of a Cotton Spinning Mill, for an invention for—"Improvements in machinery for spinning cotton or wool."<br/><i>Letters Patent sealed.</i></p> |
| <p>HOBV.<br/>KINNIBURGH.<br/>26th November 1852.</p> | <p>870. JAMES WARD HOBV, of Renfrew, in the County of Renfrew, North Britain Engineer, and JOHN KINNIBURGH, of Renfrew aforesaid, Foundry Manager, for an invention for—"Improvements in the manufacture of metal castings."<br/><i>Letters Patent sealed.</i></p>                                              |
| <p>TAYLOR.<br/>26th November 1852.</p>               | <p>871. JAMES TAYLOR, Engineer, of Messrs. James Taylor &amp; Co., Britannia Works, Birkenhead, in the County of Chester, for an invention for—"Certain improvements in and applicable to floating graving docks for repairing and building ships."<br/><i>Letters Patent sealed.</i></p>                       |
| <p>BELLFORD.<br/>26th November 1852.</p>             | <p>872. AUGUSTE EDWARD LORADOUX BELLFORD, of the United Patent Offices, 16, Castle Street, Holborn (City), London, for an invention for—"Improvements in the manufacture of bricks."—<i>A communication.</i><br/><i>Provisional protection only.</i></p>                                                        |
| <p>GLOVER.<br/>26th November 1852.</p>               | <p>873. CHARLES CLAUDE GLOVER, of Paris, in the Republic of France, and of 16, Castle Street, Holborn (City), London, for "A system of stoppering instantaneously bottles and other vessels used for containing aerated liquids."<br/><i>Provisional protection only.</i></p>                                   |
| <p>SORMANI.<br/>26th November 1852.</p>              | <p>874. PAUL SORMANI, of Paris, in the Republic of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"An improved travelling case."<br/><i>Provisional protection only.</i></p>                                                                                                    |
| <p>HUDAULT.<br/>26th November 1852.</p>              | <p>875. ARMAND JEAN CONSTANTIN HUDAULT, of Paris, in the Republic of France, and of 16, Castle Street, Holborn, London, for an invention for—"An improved leaven."<br/><i>Provisional protection only.</i></p>                                                                                                  |



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| SALVAN.<br>26th November 1852.            | 876. JEAN HYPPOLITE SALVAN, aîné, of Paris, in the Republic of France, Manufacturer, for an invention for—"Certain improvements in the manufacture of paletôts and other articles of dress, the said improvements being obtained by an improved process of felting and fulling." <i>Complete specification; Letters Patent sealed</i>                                                                         |
| COOK.<br>26th November 1852.              | 877. THOMAS AINSLEY COOK, of Wallsend, in the County of Northumberland, Manufacturing Chemist, for an invention for—"Improvements in bleaching." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                |
| MEDWIN.<br>26th November 1852.            | 878. THOMAS CHARLES MEDWIN, of the firm of Medwin and Hall, of Blackfriars Road, in the County of Surrey, Engineers, for an invention for—"Improvements in water-gauges, or instruments for indicating the height of water in boilers." <i>Letters Patent sealed.</i>                                                                                                                                         |
| ODUART.<br>26th November 1852.            | 879. JEAN AMBROISE OUDART, of Paris, France, Engineer, for an invention for—"Improvements in presses for obtaining copies of letters and other like purposes." <i>Provisional protection only</i>                                                                                                                                                                                                             |
| TURIFF.<br>26th November 1852.            | 880. ALEXANDER TURIFF, of the New Town Foundry, Paisley, in the County of Renfrew, North Britain, Engineer, for an invention for—"Improvements in moulding or shaping metals." <i>Letters Patent sealed.</i>                                                                                                                                                                                                  |
| CONDY.<br>26th November 1852.             | 881. HENRY BOLLMANN CONDY, of Battersea, in the County of Surrey, for an invention for—"Improvements in the manufacture of acetic acids and acetates." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                          |
| COSSUS.<br>26th November 1852.            | 882. ANTONIO FEDELE COSSUS, of University Street, in the County of Middlesex, for an invention for—"Improvements in lubricating apparatus." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                     |
| MASSINGHAM.<br>26th November 1852.        | 883. WILLIAM MASSINGHAM, of Ipswich, in the County of Suffolk, for an invention for—"Improvements in carriages and apparatus for carrying the dead." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                            |
| FEATHER.<br>26th November 1852.           | 884. ROBERT BARNARD FEATHER, of Liverpool, Merchant, for an invention for—"Improvements in the construction of ships, and in rendering ships and boats impervious to shot." <i>Letters Patent sealed.</i>                                                                                                                                                                                                     |
| HUDDART.<br>26th November 1852.           | 885. GEORGE AUGUSTUS HUDDART, of Bryn kir, in the County of Caernarvon, Esquire, for an invention for—"Certain improvements in tools for cutting or abrading metallic and other surfaces." <i>Provisional protection only</i>                                                                                                                                                                                 |
| BRUNDAGE.<br>26th November 1852.          | 886. EDWIN LEWIS BRUNDAGE, of Jewin Crescent, in the City of London, Gentleman, for an invention for—"Improvements in apparatus for drawing off fluids from animal bodies."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                                                            |
| WOOD.<br>26th November 1852.              | 887. THOMAS WOOD, of the Glue Works, Hunslet, in the Parish of Leeds, in the County of York, Millwright, for an invention for—"Improvements in the mode of obtaining motive-power." <i>Letters Patent sealed.</i>                                                                                                                                                                                             |
| HUDDART.<br>26th November 1852.           | 888. GEORGE AUGUSTUS HUDDART, of Bryn kir, in the County of Caernarvon, Esquire, for an invention for—"Improvements in facilitating combustion in steam-boiler furnaces." <i>Provisional protection only.</i>                                                                                                                                                                                                 |
| HUDDART.<br>26th November 1852.           | 889. GEORGE AUGUSTUS HUDDART, of Bryn kir, in the County of Caernarvon, Esquire, for an invention for—"An improved manufacture of artificial flies." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                            |
| MORICEAU.<br>26th November 1852.          | 890. MATHURIN JEAN PRUDENT MORICEAU, of 39, Rue de l'Echiquier, Paris, France, Engineer, for an invention for—"Improvements in sharpening and dressing the cards of carding machines, and the clippers and cylinders of shearing-machines." <i>Letters Patent sealed.</i>                                                                                                                                     |
| WINTON.<br>PARKES.<br>27th November 1852. | 891. HARRY WINTON, of the firm of Harry Winton and Sons, of Dove Mills, Cleveland Street, Birmingham, in the County of Warwick, Manufacturer, and FRANCIS PARKES, of Sutton Coldfield Park, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of agricultural and horticultural forks and pronged or toothed instruments and hoes." <i>Letters Patent sealed.</i> |
| WOODALL.<br>27th November 1852.           | 892. DANIEL WOODALL, of Oldbury, in the County of Worcester, Boiler Maker, for an invention for—"Improvements in canal boats." <i>Complete specification; Letters Patent sealed.</i>                                                                                                                                                                                                                          |



- LOTSKY.**  
27th November 1852. 893. JOHN LOTSKY, of Soho Square, in the County of Middlesex. Doctor of Philosophy, for an invention for—"Improved playthings, hereby denominated Pestalozzian gymnastic playthings." *Provisional protection only.*
- CURTIS.**  
27th November 1852. 894. WILLIAM JOSEPH CURTIS, of Grafton Place, Euston Square, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in the formation of tramroads or railroads, and carriages that run thereon." *Letters Patent sealed.*
- MARTIN.**  
27th November 1852. 895. EMILE MARTIN, of Paris, in the Republic of France, and of 4, South Street, Finsbury, London, Chemist, for an invention for—"Certain improvements in the mode of extracting gluten from wheat, and for preparing and drying the same by mixing to several degrees of concentration." *Letters Patent sealed.*
- GILMORE.**  
27th November 1852. 896. JOHN GILMORE, Lieutenant in the Royal Navy, of George Yard, Lombard Street, for an invention for—"An improved mode or means of extinguishing fire in ships or other vessels." *Provisional protection only.*
- HOUGHTON.**  
27th November 1852. 897. GEORGE HOUGHTON, of 74, High Street, Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of college caps." *Letters Patent sealed.*
- SCHOTTLANDER.**  
27th November 1852. 898. WILLIAM EDWARD SCHOTTLANDER, of Southwark, in the County of Surrey, Gentleman, for an invention for—"Improvements in machinery for boring the ground, stone, or rocks, for the formation of drains and sewers, or for the laying of pipes under ground, and for removing obstructions therein; also in the manufacture of pipes to be used in connection with such machinery, and in instruments for surveying and levelling preparatory to the boring operations."—*A communication from Emil Schott, of the Duchy of Brunswick.* *Letters Patent sealed.*
- WESTBROOK.**  
29th November 1852. 899. FREDERICK WESTBROOK, of Kensington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in clasps for books." *Provisional protection only.*
- LISTER.**  
WARBURTON.  
29th November 1852. 900. SAMUEL CUNLIFFE LISTER, of Manningham, in the County of York, Manufacturer, and JAMES WARBURTON, of Addingham, in the same County, Worsted Spinner, for an invention for—"Improvements in the manufacture of yarn from fibrous materials." *Letters Patent sealed.*
- DUDGEON.**  
29th November 1852. 901. THOMAS DUDGEON, of the City of Edinburgh, Scotland, Gentleman, for an invention for—"Improvements in hydrostatic propulsion." *Provisional protection only.*
- FOWLER.**  
M'COLLIN.  
29th November 1852. 902. WILLIAM FOWLER and WILLIAM M'COLLIN, both of the Borough of Kingston-upon-Hull, Boiler Makers, General Smiths, Agricultural Implement Makers, and Co-partners, for an invention for—"A machine constructed and adapted for a clod-crusher and land cultivator." *Provisional protection only.*
- PINK.**  
29th November 1852. 903. WILLIAM PINK, of Fareham, in the County of Hants, Saddler, for an invention for—"An improved construction of stirrup-bar for saddles." *Letters Patent sealed.*
- NICOLLE.**  
29th November 1852. 904. EUGÈNE NICOLLE, of Birmingham, in the County of Warwick, Civil Engineer, for an invention for—"Improvements in apparatus for damping, cutting, and attaching stamps and labels." *Provisional protection only.*
- KENDRICK.**  
29th November 1852. 905. MATTHEW SAMUEL KENDRICK, of Birmingham, in the County of Warwick, for an invention for—"Improvements in grates and fireplaces." *Letters Patent sealed.*
- KENDRICK.**  
29th November 1852. 906. MATTHEW SAMUEL KENDRICK, of Birmingham, in the County of Warwick, for an invention for—"Improvements in lamps and burners, and in the apparatus to be used therewith." *Letters Patent sealed.*
- SCHNEITER.**  
29th November 1852. 907. JEAN DAVID SCHNEITER, of 8, Rue de l'Abbaye, Paris, for an invention for—"Improvements in maps and charts." *Letters Patent sealed.*
- ELLINGTON.**  
29th November 1852. 908. FRANCIS WILLIAM ELLINGTON, of Drummond Street, Euston Square, in the County of Middlesex, for an invention for—"Improvements in the making of screws for collapsible and other vessels." *Letters Patent sealed.*



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| BROWN.<br>29th November 1852.               | 909. WILLIAM BROWN, of Airdie, in the County of Lanark, Electrician, for an invention for—"Improvements in electric telegraph instruments."<br><i>Provisional protection only.</i>                                                                                                                                                                     |
| BARSE.<br>GAGE.<br>29th November 1852.      | 910. JULES BARSE and PAUL GAGE, of Paris, in the Republic of France, and of 16, Castle Street, Holborn, London, for an invention for—"Improvements in apparatus for manufacturing soda-water and other aerated liquids, and likewise in the preparation of the substances employed therein."<br><i>Complete specification ; Letters Patent sealed.</i> |
| ADDISON.<br>30th November 1852.             | 911. JOHN ADDISON, Captain in the Service of the Honourable East India Company, of 1, Baker Street, Portman Square, London, for an invention for—"Ascertaining the hour of the day by means of a pocket sun-dial."<br><i>Provisional protection only.</i>                                                                                              |
| JEFFS.<br>30th November 1852.               | 912. WILLIAM JEFFS, of Hulme, near Manchester, in the County of Lancaster, Painter, for an invention for—"Improvements in manufacturing letters, figures, and ornamental work, and in the mode of attaching the same to wood, stone, iron, and certain other materials."<br><i>Letters Patent sealed.</i>                                              |
| MURDOCH.<br>30th November 1852.             | 913. JAMES MURDOCH, of Staple Inn, in the County of Middlesex, Patent Agent, for an invention for—"Certain improved materials for use in painting."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                          |
| HALDON.<br>30th November 1852.              | 914. JAMES MAYELSTON HALDON, of Lime Street, in the City of London, Esquire, for an invention for—"Certain improvements in the means of rendering wood imperishable and unflammable."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                        |
| CLARKE.<br>30th November 1852.              | 915. SAMUEL CLARKE, of 55, Albany Street, Regent's Park, in the County of Middlesex, Lamp and Candle Manufacturer, for an invention for—"Improvements in lamps."<br><i>Letters Patent sealed.</i>                                                                                                                                                      |
| CRAIG.<br>30th November 1852.               | 916. ALLAN CRAIG, of Barhead, near Glasgow, in the County of Renfrew, Scotland, Builder, for an invention for—"An improved crane and apparatus connected therewith."<br><i>Provisional protection only.</i>                                                                                                                                            |
| BIRCH.<br>BIRCH.<br>30th November 1852.     | 917. JOHN BRANNIS BIRCH and EUGENIUS BIRCH, both of Cannon Row, Parliament Street, in the County of Middlesex, Civil Engineers, for an invention for—"Improvements in forming drains and introducing pipes or tubes into the earth."<br><i>Letters Patent sealed.</i>                                                                                  |
| SKERTCHLEY.<br>30th November 1852.          | 918. JOSEPH SKERTCHLEY, junior, of Kingsland, in the County of Middlesex, and of Ansty, near Leicester, Engineer, for an invention for—"Improvements in mangles and mangle-rollers."<br><i>Letters Patents sealed.</i>                                                                                                                                 |
| BARLOW.<br>30th November 1852.              | 919. JAMES BARLOW, of King William Street, in the City of London, Ironmonger, for an invention for—"Improvements in stands or supports for casks, barrels, and other like vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                   |
| PARRAMORE.<br>LEWIS.<br>30th November 1852. | 920. THOMAS PARRAMORE, of Southwark, in the County of Surrey, Waterproofer, and SAMUEL LEWIS, of Stepney, in the County of Middlesex, Tailor, for an invention for—"Improvements in articles of wearing apparel."<br><i>Provisional protection only.</i>                                                                                               |
| FITT.<br>30th November 1852.                | 921. GEORGE FITT, Parsonage House, Chalk, near Gravesend, in the County of Kent, for an invention for—"Obtaining mechanical motive-power and speed."<br><i>Provisional protection only.</i>                                                                                                                                                            |
| BRAE.<br>30th November 1852.                | 922. ANDREW EDMUND BRAE, of Leeds, in the County of York, for an invention for—"An apparatus for stopping and detaining, or releasing and setting free, cords, tapes, chains, ropes, or other flexible lines or strings."<br><i>Complete specification ; Letters Patent sealed.</i>                                                                    |
| HART.<br>1st December 1852.                 | 923. CHARLES HART, of the Vale of White Horse Iron Works, Wantage, in the County of Berkshire, Agricultural Implement Manufacturer, for an invention for—"A thrashing, straw-shaking, riddling, and winnowing machine combined."<br><i>Letters Patent sealed.</i>                                                                                      |
| SLATER.<br>1st December 1852.               | 924. WILLIAM SLATER, of Carlisle, in the County of Cumberland, for an invention for—"Improvements in ovens and apparatus for baking."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                 |
| HUDDART.<br>1st December 1852.              | 925. GEORGE AUGUSTUS HUDDART, of Brynkir, in the County of Caernarvon, Esquire, for an invention for—"Improvements in the construction of boilers and furnaces for generating steam."<br><i>Letters Patent sealed.</i>                                                                                                                                 |



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| WALKER.<br>1st December 1852.            | 926. CHARLES WALKER, of Heap Bridge, near Bury, in the County of Lancaster Engineer, for an invention for—"Improvements in the method of purifying water for steam-boilers and other purposes."<br><i>Letters Patent sealed.</i>                                                                                                           |
| MILLIGAN.<br>1st December 1852.          | 927. ROBERT MILLIGAN, of Harden Mills, Bingley, in the County of York, for an invention for—"Improvements applicable to combing-machinery."<br><i>Letters Patent sealed.</i>                                                                                                                                                               |
| MORRIS.<br>1st December 1852.            | 928. WILLIAM MORRIS, of Westminster, Civil Engineer, for an invention for—"Improvements in the production of motive-power, and in apparatus pertaining thereto."<br><i>Letters Patent sealed.</i>                                                                                                                                          |
| GREEN.<br>1st December 1852.             | 929. FREDERICK WILLIAM GREEN, of Bristol and London, Esquire, Shipowner, for an invention for—"Certain improvements in the mode of propelling ships and other vessels."<br><i>Provisional protection only.</i>                                                                                                                             |
| DABLE.<br>WELLS.<br>2nd December 1852.   | 930. JOHN DABLE, of Birmingham, Carpenter, and WILLIAM WELLS, of Birmingham, Carpenter, for an invention for—"An improvement in rolling metals."<br><i>Letters Patent sealed.</i>                                                                                                                                                          |
| KIRKE.<br>2nd December 1852.             | 931. ROBERT KIRKE, of Llanelly Dock, Llanelly, in the County of Carmarthen, Colliery Agent, for an invention for—"An improved grate or apparatus for burning fuel, especially adapted for anthracite coal, whether used under reverberatory furnaces or boilers, or with or without a blast."<br><i>Provisional protection only.</i>       |
| TAYLOR.<br>2nd December 1852.            | 932. WILLIAM TAYLOR, residing at No. 16, Oxford Terrace, Hyde Park, London, for an invention for—"Improvements in propelling ships and other floating bodies."<br><i>Letters Patent sealed.</i>                                                                                                                                            |
| ROTHWELL.<br>2nd December 1852.          | 933. JAMES ROTHWELL, of Heywood, near Manchester, in the County of Lancaster, Manager, for an invention for—"Certain improvements in looms for weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                  |
| WHYTEHEAD.<br>2nd December 1852.         | 934. WILLIAM KELD WHYTEHEAD, Consulting Engineer, of 69, Cornhill, London, Middlesex, for an invention for—"Certain improvements in steam-engines and steam-boilers."<br><i>Letters Patent sealed.</i>                                                                                                                                     |
| M'CONNELL.<br>2nd December 1852.         | 935. JAMES EDWARD M'CONNELL, of Wolverton, in the County of Buckingham, Civil Engineer, for an invention for—"Improvements in locomotive-engines."<br><i>Letters Patent sealed.</i>                                                                                                                                                        |
| NORTON.<br>2nd December 1852.            | 936. JOHN NORTON, of Cork, in the County of Cork, Esquire, for an invention for—"Improvements in shot or projectiles."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                    |
| POULSON.<br>2nd December 1852.           | 937. EBENEZER POULSON, of Monkwearmouth, in the County of Durham, for an invention for—"An improved mechanical purchase, applicable to working ships' and other pumps, and to similar purposes."<br><i>Letters Patent sealed.</i>                                                                                                          |
| MILLAR.<br>2nd December 1852.            | 938. CHARLES MILLAR, of Dundee, in the County of Forfar, Brewer, for an invention for—"Improvements in time-keepers or clock-work, and in machinery or apparatus worked in connection therewith."<br><i>Letters Patent sealed.</i>                                                                                                         |
| NEWALL.<br>3rd December 1852.            | 939. JAMES NEWALL, of Bury, in the County of Lancaster, Railway Carriage Builder, for an invention for—"Improvements in breaks, machinery, or apparatus applied to railway and other carriages in motion, and in the mode or method of connecting two or more of such breaks together."<br><i>Letters Patent sealed.</i>                   |
| SEWARD.<br>3rd December 1852.            | 940. NOBLE SEWARD, of Caherconlish, in the County of Limerick, Gentleman, for an invention for—"Improvements in applying hydro-pneumatic agency for obtaining motive-power."<br><i>Letters Patent sealed.</i>                                                                                                                              |
| BANFIELD.<br>3rd December 1852.          | 941. THOMAS COLLINS BANFIELD, of No. 18, Queen's Square, in the City of Westminster, in the County of Middlesex, Gentleman, for an invention for—"Improvement in the process of and apparatus for extracting saccharine and other juices from beet-root or other roots and plants."— <i>A communication.</i> <i>Letters Patent sealed.</i> |
| WALKER.<br>WALKER.<br>3rd December 1852. | 942. PETER WALKER and ANDREW BARCLAY WALKER, of King Street, Warrington, in the County of Lancaster, Brewers, for an invention for—"Improvements in fermenting ale and porter, and other liquids."<br><i>Letters Patent sealed.</i>                                                                                                        |



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| HITCHINS.<br>BATLEY.<br>3rd December 1852.  | 943. HENRY HITCHINS, of King William Street, City, and WILLIAM BATLEY, of Denmark Street, Bloomsbury, both in the County of Middlesex, for an invention for—"Improvements in producing raised surfaces and imitations of carvings from materials not hitherto similarly applied."<br><i>Provisional protection only.</i>     |
| WOODCOCK.<br>3rd December 1852.             | 944. PAGE DEWING WOODCOCK, of Lincoln, in the County of Lincoln, Chemist, for an invention for—"An improved preparation or pill for medicinal purposes, hereby denominated Page Woodcock's Wind Pills."<br><i>Letters Patent sealed.</i>                                                                                     |
| DE BERGUE.<br>3rd December 1852.            | 945. CORNELIUS DE BERGUE, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in and applicable to looms for weaving."— <i>A communication.</i><br><i>Letters Patent sealed; no specification filed.</i>                                                                                 |
| WARE.<br>FERNANDEZ.<br>3rd December 1852.   | 946. GEORGE WARE, of Sydenham, Kent, Cordwainer, and ALBERT HENRY FERNANDEZ, Civil Engineer, of Newington Crescent, Surrey, for an invention for—"Improvements in the making of wedges or keys for holding or tightening the rails within railway-chairs."<br><i>Provisional protection only.</i>                            |
| NEALE.<br>3rd December 1852.                | 947. JOHN NEALE, of High Street, Ordnance Place, Chatham, in the County of Kent, Lath-render, for an invention for—"Improvements in back fastenings for Venetian and other swing shutters or blinds, and also for swing windows and doors."<br><i>Provisional protection only.</i>                                           |
| STIFF.<br>3rd December 1852.                | 948. GEORGE STIFF, of Minerva Cottage, Christchurch Road, Brixton Hill, in the County of Surrey, Gentleman, for an invention for—"An improved construction of printing-machine."<br><i>Provisional protection only.</i>                                                                                                      |
| BETHELL.<br>3rd December 1852.              | 949. JOHN BETHELL, of Parliament Street, in the City of Westminster, Gentleman, for an invention for—"Improvements in machinery or apparatus for digging and cultivating land."<br><i>Letters Patent sealed.</i>                                                                                                             |
| BETHELL.<br>3rd December 1852.              | 950. JOHN BETHELL, of Parliament Street, in the City of Westminster, Gentleman, for an invention for—"Improvements in steam-engines."<br><i>Provisional protection only.</i>                                                                                                                                                 |
| WALL.<br>3rd December 1852.                 | 951. ARTHUR WALL, of the East India Road, in the County of Middlesex, for an invention for—"Improvements in preparing sheet metal for ship building and other uses."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                |
| McNEE.<br>3rd December 1852.                | 952. DUNCAN McNEE, of Kirkintulloch, in the County of Dumbarton, Calico Printer, for an invention for—"A machine for printing with colours on cloth, and which is also applicable for printing ornamental designs on paper."<br><i>Letters Patent sealed.</i>                                                                |
| BROOMAN.<br>3rd December 1852.              | 953. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in the manufacture of sugar."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                       |
| NEVILLE.<br>3rd December 1852.              | 954. SAMUEL NEVILLE, of Gateshead, in the County of Durham, Glass Manufacturer, for an invention for—"Improvements in the manufacture of lamp glasses and globes."<br><i>Letters Patent sealed.</i>                                                                                                                          |
| KEATES.<br>3rd December 1852.               | 955. WILLIAM KEATES, of the firm of Newton, Keates, & Company, of Liverpool, in the County of Lancaster, Merchants, for an invention for—"Improvements in fire-boxes for locomotive and other steam boilers."<br><i>Letters Patent sealed.</i>                                                                               |
| MANIFOLD.<br>LOWNDES.<br>4th December 1852. | 956. JOHN THORNBORROW MANIFOLD and CHARLES SPENCER LOWNDES, of Liverpool, in the County of Lancaster, Engineers, for an invention for—"Improvements in the method of extracting the juice from the sugar-cane."<br><i>Provisional protection only.</i>                                                                       |
| ROWBOTHAM.<br>4th December 1852.            | 957. JOHN ROWBOTHAM, of Manchester, in the County of Lancaster, Merchant, for an invention for—"Improvements in time-keepers, and apparatus connected therewith, for ascertaining the attendance on duty of watchmen and other persons having charge of property."— <i>A communication.</i><br><i>Letters Patent sealed.</i> |
| LAWRIE.<br>4th December 1852.               | 958. ALEXANDER LAWRIE, Chief Engineer of Her Majesty's Dockyard, Chatham, in the County of Kent, for an invention for—"Improvements in the manufacture of oars and similar articles."<br><i>Letters Patent sealed.</i>                                                                                                       |
| MURDOCH.<br>4th December 1852.              | 959. JAMES MURDOCH, of Staple Inn, in the County of Middlesex, Patent Agent, for an invention for—"An improved galvanic battery."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                  |



- BENTLEY.  
4th December 1852. 960. JOSEPH BENTLEY, of Liverpool, in the County of Lancaster, Gun and Pistol Manufacturer, for an invention for—"Improvements applicable to fire-arms." *Letters Patent sealed.*
- CLIFF.  
4th December 1852. 961. JOSEPH CLIFF, of Wortley, in the Parish of Leeds, Fire-brick Manufacturer, for an invention for—"Improvements in the mode of making and compressing bricks, lumps, tiles, quarries, terra-cotta, and other similar articles." *Letters Patent sealed.*
- MAUGHAM.  
4th December 1852. 962. WILLIAM MAUGHAM, of Ifield Terrace, in the County of Surrey, for an invention for—"Improvements in rendering wood fireproof." *Letters Patent sealed.*
- PARRATT.  
4th December 1852. 963. GEORGE FREDERICK PARRATT, of Piccadilly, in the County of Middlesex, for an invention for—"Improvements in portable bridges or pontoons." *Provisional protection only.*
- PULVERMACHER.  
4th December 1852. 964. ISAAC LEWIS PULVERMACHER, of Paris, France, Engineer, for an invention for—"Improvements in pipes and cigar-holders." *Letters Patent sealed.*
- MURPHY.  
6th December 1852. 965. DENIS JOHN MURPHY, of Cork, County Cork, Gentleman, for an invention for—"An improved agricultural machine, which he calls the 'Archimedean Agricultural machine.'" *Provisional protection only.*
- BUCHANAN.  
6th December 1852. 966. JAMES BUCHANAN, of Glasgow, in the County of Lanark, Manufacturer, for an invention for—"Improvements in the treatment of flax and other similar vegetable fibrous substances, and in the machinery employed therein." *Letters Patent sealed.*
- BROOMAN.  
6th December 1852. 967. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in saws and saw-mills."—*A communication.* *Letters Patent sealed.*
- DE DOUHET.  
6th December 1852. 968. GUILLAUME FERDINAND DE DOUHET, of Paris, in the Republic of France, for an invention for—"Improvements in the manufacture of alcoholic, saccharine, and starch products." *Provisional protection only.*
- GAUTIER.  
6th December 1852. 969. ANDRÉ JACQUES AMAND GAUTIER, of Paris, in the Republic of France, for an invention for—"An improved treatment of peat." *Letters Patent sealed.*
- LEES.  
KAY.  
6th December 1852. 970. ASA LEES, of Rhodes House, within Oldham, in the County of Lancaster, Machine Maker, and THOMAS KAY, of Mumps, within Oldham aforesaid, Machine Maker, for an invention for—"Improvements in machinery for spinning and doubling cotton, wool, silk, flax, and other fibrous materials." *Letters Patent sealed; no specification filed.*
- GOOCH.  
6th December 1852. 971. FREDERICK MACKELLAR GOOCH, of Bolton-le-Moors, in the County of Lancaster, Engineer, for an invention for—"Improvements in the construction of railway signals, and in machinery or apparatus for working railway signals." *Letters Patent sealed.*
- JORDERY.  
6th December 1852. 972. CHARLES ALFRED JORDERY, of No. 12, Rue Thivenot, Paris, France, Manufacturer, for an invention for—"Improvements in the construction of the bodies of cravat collars and stocks and stiffeners, and in the ornamenting of cravat collars and stocks in general." *Letters Patent sealed.*
- LAMING.  
6th December 1852. 973. RICHARD LAMING, of Millwall, Poplar, in the County of Middlesex, Chemist, for an invention for—"Improvements in purifying gas, and in obtaining from the products resulting from the purification of gas certain useful compounds." *Provisional protection only.*
- TUCKER.  
6th December 1852. 974. EDWARD TUCKER, of Belfast, in the County of Antrim, Ireland, for an invention for—"Improvements in the manufacture or production of starch." *Letters Patent sealed.*
- PATON.  
6th December 1852. 975. WILLIAM PATON, of Johnstone, in the County of Renfrew, North Britain, Manufacturer, for an invention for—"Improvements in the manufacture of driving-bands for machinery." *Provisional protection only.*
- NORMAN.  
6th December 1852. 976. JOHN NORMAN, of Liverpool, in the County of Lancaster, Shipowner, for an invention for—"Improvements in the mode of making and setting the square sails of ships or vessels, of any size and description." *Letters Patent sealed.*
- BLACKETT.  
6th December 1852. 977. WILLIAM BLACKETT, of 227, Blackfriars Road, in the County of Surrey, for an invention for—"Improvements in steam boilers." *Provisional protection only.*



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| SMITH.<br>6th December 1852.              | 978. JAMES SMITH, of 2, Little Canterbury Place, Lambeth Walk, in the County of Surrey, for an invention for—"Improvements in paving roads and other surfaces."<br><i>Letters Patent sealed.</i>                                                                                                                                              |
| QUARTERMAN.<br>6th December 1852.         | 979. WILLIAM QUARTERMAN, 19, Whittaker Street, Pimlico, Middlesex, for an invention for—"Eliciting the gas concentrated in nitre and sulphur, and which is entitled a gaseous engine."<br><i>Provisional protection only.</i>                                                                                                                 |
| CONOLLY.<br>COTTER.<br>6th December 1852. | 980. THOMAS CONOLLY, of Hanover Square, London, Esquire, M. P., and WILLIAM COTTER, of Beeston, Nottingham, Engineer, for an invention for—"Improvements in propelling vessels."<br><i>Letters Patent sealed.</i>                                                                                                                             |
| DUCHAMP.<br>7th December 1852.            | 981. PIERRE DUCHAMP, of No. 17, Rue du Commerce, Lyons, temporary of 39, Rue de l'Echiquier, Paris, Machinist, for an invention for—"An improved jacquard machine."<br><i>Provisional protection only.</i>                                                                                                                                    |
| FONTAINE MOREAU.<br>7th December 1852.    | 982. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"Improvements in constructing the bars of furnaces and grates."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                 |
| JOHNSON.<br>7th December 1852.            | 983. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in weaving carpets and other fabrics, and in the machinery or apparatus employed therein."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                           |
| CHALLINOR.<br>7th December 1852.          | 984. THOMAS CHALLINOR, of Bolt Court, Fleet Street, in the City of London, for an invention for—"Improvements in apparatus to be applied to decanters and other bottles, to facilitate the running off liquids therefrom."<br><i>Letters Patent sealed.</i>                                                                                   |
| MAYO.<br>7th December 1852.               | 985. WILLIAM MAYO, of Berners Street, in the County of Middlesex, for an invention for—"Improvements in ball or float valves and cocks."<br><i>Letters Patent sealed.</i>                                                                                                                                                                     |
| NORTON.<br>7th December 1852.             | 986. JAMES NORTON, of Ludgate Hill, in the City of London, Gentleman, for an invention for—"An improved mode of transmitting motive-power."<br><i>Letters Patent sealed.</i>                                                                                                                                                                  |
| NEWTON.<br>7th December 1852.             | 987. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved mode of transportation, for the conveyance of letters, packages, freight, or passengers from one place to another."— <i>A communication.</i><br><i>Letters Patent sealed.</i> |
| GODDARD.<br>7th December 1852.            | 988. SAMUEL ASPINWALL GODDARD, of Birmingham, in the County of Warwick, Merchant and Gun Manufacturer, for an invention for—"Improvements in the construction of pistols."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                           |
| BROOMAN.<br>7th December 1852.            | 989. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in safety valves."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                   |
| BROOMAN.<br>7th December 1852.            | 990. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in machinery or apparatus for heating, evaporating, torrefying, distilling, and refrigerating."— <i>A communication.</i><br><i>Letters Patent sealed.</i>      |
| PRESTON.<br>8th December 1852.            | 991. THOMAS LOVELL PRESTON, of Birmingham, in the County of Warwick, Machinist, for an invention for—"A machine for making links for chains."<br><i>Letters Patent sealed.</i>                                                                                                                                                                |
| BROWNE.<br>8th December 1852.             | 992. JOHN BROWNE, of Charles Street, Regent Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in machinery or apparatus for preventing the escape of smoke from chimneys, and consuming or otherwise disposing thereof."<br><i>Provisional protection only.</i>                                               |
| FONTAINE MOREAU.<br>8th December 1852.    | 993. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"Improvements in the machinery for applying metallic capsules."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                 |



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| JENKINS.<br>8th December 1852.                            | 994. HENRY JENKINS, of No. 11, Spencer Street, in Birmingham, in the County of Warwick, Die Sinker, Stamper, and Piercer, for an invention for—"Improvements in the manufacture of bracelets, brooches, and other articles of jewellery."<br><i>Complete specification; Letters Patent sealed.</i>                     |
| HARRISON.<br>HARRISON.<br>HARRISON.<br>8th December 1852. | 995. JOHN HARRISON, ROBERT HARRISON, and ALEXANDER STEWART HARRISON, of Dromore, County Down, Ireland, Cambric Manufacturers, for an invention for—"Certain improvements in machinery used in the manufacture of textile and other fabrics."<br><i>Letters Patent sealed.</i>                                          |
| SYMONDS.<br>MOUCHET.<br>8th December 1852.                | 996. JOHN SYMONDS, of Glass House Yard, East Smithfield, in the County of Middlesex, Galvanized Iron Merchant, and GEORGE MOUCHET, of Battersea, in the County of Surrey, Gentlemen, for an invention for—"An improved mode of cleaning or scaling metallic surfaces."<br><i>Letters Patent sealed.</i>                |
| BADDELEY.<br>8th December 1852.                           | 997. WILLIAM BADDELEY, of No. 13, Angell Terrace, St. Peter's, Islington, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus for the conversion of rectilinear into circular motion."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                     |
| BEATSON.<br>HILL.<br>8th December 1852.                   | 998. DONALD BEATSON, of Mile End, in the County of Middlesex, and THOMAS HILL, of Southampton, for an invention for—"Improvements in the means of propelling ships and other floating vessels."<br><i>Letters Patent sealed.</i>                                                                                       |
| HILL.<br>8th December 1852.                               | 999. THOMAS HILL, of Southampton, for an invention for—"Certain improvements in paddle-wheels for propelling ships and other vessels."<br><i>Provisional protection only.</i>                                                                                                                                          |
| LAWRENCE.<br>8th December 1852.                           | 1000. JAMES LAWRENCE, of Westminster, in the County of Middlesex, for an invention for—"Improvements in the manufacture of projectiles."<br><i>Letters Patent sealed.</i>                                                                                                                                              |
| GROVES.<br>FINZEL.<br>8th December 1852.                  | 1001. ANTHONY NORRIS GROVES, of Madras, in the East Indies, and CONRAD WILLIAM FINZEL, junior, of Bristol, for an invention for—"Improvements in condensing steam or vapours."<br><i>Letters Patent sealed.</i>                                                                                                        |
| WILSON.<br>8th December 1852.                             | 1002. JAMES SPOTSWOOD WILSON, of Tavistock Place, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in propelling."<br><i>Letters Patent sealed.</i>                                                                                                                                      |
| ORDE.<br>8th December 1852.                               | 1003. SIR JOHN POWLETT ORDE, of Kilmory House, Loch Gilp Head, in the County of Argyll, Baronet, for an invention for—"Improvements in head-gear for horses and other like animals."<br><i>Letters Patent sealed.</i>                                                                                                  |
| HOPKINS.<br>8th December 1852.                            | 1004. JOSEPH HOPKINS, of Worcester, in the County of Worcester, Hop Factor, for an invention for—"Improvements in obtaining a straight line parallel to the axis of the earth, or in rendering the axis of a tube or of a telescope parallel thereto."<br><i>Letters Patent sealed.</i>                                |
| KOPP.<br>GATTY.<br>9th December 1852.                     | 1005. EMILE KOPP, of Accrington, in the County of Lancaster, Professor of Chemistry, and FREDERICK ALBERT GATTY, of Accrington aforesaid, Manufacturing Chemist, for an invention for—"Improvements in printing or dyeing textile fabrics."<br><i>Complete specification; Letters Patent sealed.</i>                   |
| PRICE.<br>9th December 1852.                              | 1006. DAVID LLOYD PRICE, of Beaufort, in the County of Brecknock, South Wales, Watch and Clock Maker, for an invention for—"Certain improvements in apparatus for effectuating alarms and signals by electricity."<br><i>Complete specification; protection for SIX months only.</i>                                   |
| MATHER.<br>9th December 1852.                             | 1007. WILLIAM MATHER, of Manchester, in the County of Lancaster, Chemist, and Druggist, for an invention for—"Certain improvements in the method of spreading medicinal compounds upon leather, to be used as plasters, and in the machinery or apparatus connected therewith."<br><i>Provisional protection only.</i> |
| BADDELEY.<br>9th December 1852.                           | 1008. WILLIAM BADDELEY, of No. 13, Angell Terrace, St. Peter's, Islington, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture of metal pipes."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                      |
| ALLCHIN.<br>9th December 1852.                            | 1009. WILLIAM ALLCHIN, of the firm of William Allchin and Son, of the Globe Steam Engine Works, Northampton, in the County of Northampton, Engineers, for an invention for—"Improvements in agricultural and other steam engines."<br><i>Letters Patent sealed.</i>                                                    |



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| HUNT.<br>9th December 1852.                     | 1010. EDMUND HUNT, of Glasgow, in the County of Lanark, North Britain, Gentleman, for an invention for—"An improved screw-propeller."<br><i>Provisional protection only.</i>                                                                                              |
| LOSEBY.<br>9th December 1852.                   | 1011. EDWARD THOMAS LOSEBY, of Gerrard Street, Islington, in the County of Middlesex, Horologist, for an invention for—"Improvements in the construction of time-keepers, and in cases to be applied thereto."<br><i>Letters Patent sealed.</i>                           |
| GREENWAY.<br>9th December 1852.                 | 1012. CHARLES GREENWAY, of Cheltenham, in the County of Gloucester, for an invention for—"Improvements in anchors."<br><i>Letters Patent sealed.</i>                                                                                                                      |
| COLLIER.<br>9th December 1852.                  | 1013. GEORGE COLLIER, of Halifax, in the County of York, for an invention for—"Improvements in the manufacture of carpets and other fabrics."<br><i>Letters Patent sealed.</i>                                                                                            |
| MASTERS.<br>9th December 1852.                  | 1014. THOMAS MASTERS, of Oxford Street, in the County of Middlesex, Confectioner, for an invention for—"Improvements in machinery or apparatus for cleaning knives and other steel articles."<br><i>Letters Patent sealed.</i>                                            |
| SHERINGHAM.<br>10th December 1852.              | 1015. JOHN SHERINGHAM, of No. 24, Edwardes Square, Kensington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction of stove-grates."<br><i>Letters Patent sealed.</i>                                                           |
| BLACKWELL.<br>10th December 1852.               | 1016. JONATHAN CALDWELL BLACKWELL, of Edinburgh, in the County of Mid Lothian, North Britain, Accountant, for an invention for—"Improvements in musical instruments."<br><i>Provisional protection only.</i>                                                              |
| JAY.<br>10th December 1852.                     | 1017. ALFRED THOMAS JAY, of No. 13, Cheapside, in the City of London and County of Middlesex, for an invention for—"A safety letter-box."<br><i>Provisional protection only.</i>                                                                                          |
| SMITHSON.<br>ADAM.<br>10th December 1852.       | 1018. THOMAS ABBEY SMITHSON, Clerk, and GEORGE HALL ADAM, Clerk, both of Kingston-upon-Hull, for an invention for—"An improved mode of suspending carriage-bodies."<br><i>Provisional protection only.</i>                                                                |
| DERRINGTON.<br>CHADWICK.<br>10th December 1852. | 1019. JAMES DERRINGTON, of Manchester, in the County of Lancaster, Brass-founder, and JOHN CHADWICK, of the same place, Book-keeper, for an invention for—"Improvements in cocks and valves for liquids and steam."<br><i>Provisional protection only.</i>                |
| BROOMAN.<br>10th December 1852.                 | 1020. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in evaporating apparatus."— <i>A communication.</i><br><i>Letters Patent sealed.</i>      |
| BOILESVE.<br>11th December 1852.                | 1021. JULIEN BOILESVE, of 4, South Street, Finsbury, in the County of Middlesex, Engineer, for an invention for—"An improved desiccating apparatus."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                            |
| BOARDMAN.<br>10th December 1852.                | 1022. THOMAS BOARDMAN, of Pendleton, in the County of Lancaster, Overlooker, for an invention for—"Improvements in looms for weaving."<br><i>Letters Patent sealed.</i>                                                                                                   |
| ROTHERA.<br>11th December 1852.                 | 1023. WILLIAM ROTHERA, of Hollinwood, in the County of Lancaster, Machine Maker, for an invention for—"Certain improvements in machinery or apparatus for manufacturing nails, screw blanks, and other similar articles of metal."<br><i>Provisional protection only.</i> |
| HOWELL.<br>11th December 1852.                  | 1024. GEORGE DUNCAN HOWELL, of Edinburgh, Scotland, House-painter, for an invention for—"Improvements in ventilation."<br><i>Provisional protection only.</i>                                                                                                             |
| MARTIN.<br>11th December 1852.                  | 1025. JAMES MARTIN, of No. 2, Prospect Row, Bermondsey, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in the composition of artificial fuel, and in the mode of manufacturing the same."<br><i>Provisional protection only.</i>             |
| BATES.<br>11th December 1852.                   | 1026. EDWIN BATES, of Welbeck Street, in the County of Middlesex, Geometer, for an invention for—"Improvements in breaks for railway engines and carriages."<br><i>Provisional protection only.</i>                                                                       |
| SORRELL.<br>11th December 1852.                 | 1027. WILLIAM SORRELL, of Kingsland, in the County of Middlesex, Engineer, for an invention for—"Improvements in furnaces and fireplaces for consuming smoke."<br><i>Letters Patent sealed.</i>                                                                           |
| WHITE.<br>11th December 1852.                   | 1028. ARCHIBALD WHITE, of Great Missenden, in the County of Buckingham, Gentleman, for an invention for—"Improvements in apparatus for retarding and stopping railway-trains."<br><i>Letters Patent sealed.</i>                                                           |



- BEDELLS.  
11th December 1852. 1029. CALEB BEDELLS, of Leicester, in the County of Leicester, Manufacturer, for an invention for—"Improvements in reels." *Provisional protection only.*
- GREEN.  
11th December 1852. 1030. STEPHEN GREEN, of Prince's Street, Lambeth, in the County of Surrey, for an invention for—"Improvements in joining earthenware tubes and pipes." *Letters Patent sealed.*
- DIXON.  
11th December 1852. 1031. GEORGE DIXON, of Birmingham, in the County of Warwick, Merchant, for an invention for—"Improvements in the manufacture and refining of sugar."—*A communication.* *Letters Patent sealed.*
- MORRIS.  
JOHNSON.  
11th December 1852. 1032. TIMOTHY MORRIS, of Birmingham, Manufacturer, and WILLIAM JOHNSON, of Washwood Heath, near Birmingham, in the County of Warwick, Gentleman, for an invention for—"Improvements in depositing alloys of metals." *Letters Patent sealed.*
- RITCHIE.  
11th December 1852. 1033. CHARLES RITCHIE, of Hackney, in the County of Middlesex, for an invention for—"Improvements in apparatus for measuring fluids." *Letters Patent sealed.*
- WAY.  
PAINE.  
11th December 1852. 1034. JOHN THOMAS WAY, of Holles Street, Cavendish Square, in the County of Middlesex, Professor of Chemistry, and JOHN MANWARING PAINE, of Farnham, in the County of Surrey, for an invention for—"Improvements in the manufacture of glass." *Letters Patent sealed.*
- GRIFFIN.  
11th December 1852. 1035. CHARLES GRIFFIN, of No. 5, Sydney Terrace, in the parish of Milverton, in the County of Warwick, Gentleman, for an invention for—"Improvements in obtaining metallic copper from its solutions formed by nature and in the various processes of purifying cupreous ores by means of water." *Provisional protection only.*
- GLASSON.  
13th December 1852. 1036. JOSIAH GLASSON, of the Soho Foundry, near Birmingham, in the County of Warwick, Boiler Maker, for an invention for—"Improvements in boilers." *Letters Patent sealed.*
- HAMBLET.  
DEAN.  
13th December 1852. 1037. JOSEPH HAMBLET, of Oldbury, in the County of Worcester, Brick Manufacturer, and WILLIAM DEAN, of Oldbury aforesaid, Agent, for an invention for—"An improvement in the manufacture of bricks." *Letters Patent sealed.*
- EVERITT.  
13th December 1852. 1038. GEORGE ALLEN EVERITT, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in rolling metal strips for the manufacture of wire." *Complete specification; protection for SIX months only.*
- MACKAY.  
13th December 1852. 1039. GEORGE MACKAY, of Buckingham Street, Strand, in the County of Middlesex, Gentleman, for an invention for—"An improved construction of stirrup."—*A communication.* *Provisional protection only.*
- MACKAY.  
13th December 1852. 1040. GEORGE MACKAY, of Buckingham Street, Strand, in the County of Middlesex, Gentleman, for an invention for—"An improved construction of paddle-wheel."—*A communication.* *Provisional protection only.*
- NEWTON.  
13th December 1852. 1041. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved apparatus for regulating the density of fluids."—*A communication.* *Letters Patent sealed.*
- LEJEUNE.  
13th December 1852. 1042. JULES LEJEUNE, of Auteuil, near Paris, in the empire of France, and of 16, Castle Street, Holborn, London, for an invention for—"A new machine for washing house linen, and all kinds of textile articles that is employed in making them." *Letters Patent sealed.*
- DANGERFIELD.  
13th December 1852. 1043. FREDERICK DANGERFIELD, of the firm of Ashbee and Dangerfield, of Broad Court, Long Acre, in the City of Westminster, Lithographers, for an invention for—"Improvements in the lithographic press." *Provisional protection only.*
- NAPIER.  
13th December 1852. 1044. DAVID NAPIER, of Millwall, Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*
- CLAYTON.  
13th December 1852. 1045. HENRY CLAYTON, of the Atlas Works, Upper Park Place, Dorset Square, in the County of Middlesex, for an invention for—"Improvements in the manufacture of bricks." *Letters Patent sealed.*



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| TALBOT.<br>13th December 1852.             | 1046. WILLIAM HENRY FOX TALBOT, of Lacock Abbey, in the County of Wilts, for an invention for—"Improvements in obtaining motive power."<br><i>Letters Patent sealed.</i>                                                                                                    |
| RIPLEY.<br>13th December 1852.             | 1047. ABRAHAM RIPLEY, of Philadelphia Terrace, Westminster Road, in the County of Surrey, Engineer, for an invention for—"Improvements in axles for railway wheels."<br><i>Provisional protection only.</i>                                                                 |
| BELL.<br>14th December 1852.               | 1048. JAMES BELL, of Portobello, in the County of Mid Lothian, North Britain, Engineer, for an invention for—"Improvements in railway chairs."<br><i>Letters Patent sealed.</i>                                                                                             |
| MAGNANT.<br>14th December 1852.            | 1049. CHARLES EDMOND MAGNANT, of Paris, in the Empire of France, and of 69, Cornhill, London, for an invention for—"Certain improvements in tanning."<br><i>Letters Patent sealed.</i>                                                                                      |
| TAYLOR.<br>14th December 1852.             | 1050. JOHN NICHOLAS TAYLOR, of North Shields, in the County of Northumberland, Blacksmith, for an invention for—"Certain improvements in ships' windlasses and other winches."<br><i>Provisional protection only.</i>                                                       |
| WEBB.<br>14th December 1852.               | 1051. JOHN WEBB, of Coventry, in the County of Warwick, Manufacturer, for an invention for—"Improvements in ornamenting enamel watch-dials."<br><i>Complete specification: Letters Patent sealed.</i>                                                                       |
| IRLAM.<br>14th December 1852.              | 1052. WILLIAM IRLAM, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in railways."<br><i>Letters Patent sealed.</i>                                                                                                                 |
| BAGGS.<br>14th December 1852.              | 1053. ISHAM BAGGS, of Liverpool Street, in the County of Middlesex, Engineer, for an invention for—"Improvements in obtaining or extracting gold and silver from their ores."<br><i>Letters Patent sealed.</i>                                                              |
| JOHNSON.<br>14th December 1852.            | 1054. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in fire-grates or fireplaces."— <i>A communication. Provisional protection only.</i>                        |
| JOHNSON.<br>14th December 1852.            | 1055. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex and of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in apparatus for the manufacture of aerated waters."— <i>A communication. Provisional protection only.</i> |
| JOHNSON.<br>14th December 1852.            | 1056. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in wind-guards or chimney-tops."— <i>A communication. Provisional protection only.</i>                      |
| JENNINGS.<br>14th December 1852.           | 1057. JOSIAH GEORGE JENNINGS, of Great Charlotte Street, Blackfriars Road, in the County of Surrey, Brass Founder, for an invention for—"Improvements in constructing drains."<br><i>Provisional protection only.</i>                                                       |
| APPEL.<br>14th December 1852.              | 1058. RUDOLPH APPEL, of 43, Gerrard Street, Soho, in the County of Middlesex, for an invention for—"Improvements in anastatic printing, and in producing copies of drawings, writings, and printed impressions."<br><i>Letters Patent sealed.</i>                           |
| FLORET.<br>14th December 1852.             | 1059. JOSEPH PAUL MARC FLORET, of Paris, in the Republic of France, and of 16, Castle Street, Holborn, City, London, for an invention for—"An improved method of producing simultaneously gas light and lime or plaster."<br><i>Letters Patent sealed.</i>                  |
| MIDDLETON.<br>15th December 1852.          | 1060. WILLIAM EDWARD MIDDLETON, of Birmingham, Engineer, for an invention for—"A new or improved lubricator."— <i>A communication. Letters Patent sealed.</i>                                                                                                               |
| D'HOMME.<br>15th December 1852.            | 1061. PHILLIPPE D'HOMME, Manufacturer, of Paris, in the French Empire, for an invention for—"Certain improvements in the manufacture of window blinds, curtains, and hangings."— <i>A communication. Letters Patent sealed.</i>                                             |
| WALKER.<br>15th December 1852.             | 1062. SUSAN WALKER, of Hersham, in the County of Surrey, for an invention for—"Improvements in clogs and pattens."<br><i>Letters Patent sealed.</i>                                                                                                                         |
| ELLIOT.<br>RUSSELL.<br>15th December 1852. | 1063. GEORGE ELLIOT and WILLIAM RUSSELL, both of St. Helens, Lancashire, Manufacturing Chemists, for an invention for—"Certain improvements in boiling down saline solutions."<br><i>Letters Patent sealed.</i>                                                             |



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| CAPLIN.<br>15th December 1852.                     | 1064. JEAN FRANÇOIS ISIDORE CAPLIN, of Strawberry Hill, near Manchester, in the County of Lancaster, Orthorachidist, for an invention for—"Improvements in apparatus for preventing or curing a stooping of the head or of the body."<br><i>Letters Patent sealed.</i>                                                                                                                      |
| MASON.<br>15th December 1852.                      | 1065. JOHN MASON, of Rochdale, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in the processes of bleaching and dyeing textile materials and fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                      |
| ROTSCHIEFF.<br>15th December 1852.                 | 1066. ALEXANDRE ROTSCHIEFF, of Queen Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in machinery or apparatus for separating gold or other valuable substances from earth or other extraneous matters."— <i>Partly a communication.</i><br><i>Provisional protection only.</i>                                                                           |
| WALLIS.<br>15th December 1852.                     | 1067. CHARLES JAMES WALLIS, of Clarendon Chambers, Hand Court, Holborn, in the County of Middlesex, Civil Engineer and Mechanical Draughtsman, for an invention for—"Improvements in machinery for amalgamating, mixing, and grinding substances together."<br><i>Letters Patent sealed.</i>                                                                                                |
| GROVES.<br>15th December 1852.                     | 1068. ANTHONY NORRIS GROVES, of Bristol, in the County of Somerset, Gentleman, for an invention for—"Improvements in apparatus for heating, drying, and evaporating."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                      |
| TAYLOR.<br>PHILLIPS.<br>15th December 1852.        | 1069. RICHARD TAYLOR, junior, of Queen Street, Cheapside, in the City of London, and JOHN ARTHUR PHILLIPS, of Upper Stamford Street, Blackfriars, in the County of Surrey, for an invention for—"Improvements in treating zinc ores."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                              |
| DRESSER.<br>15th December 1852.                    | 1070. CLEMENT DRESSER, of Basinghall Street, in the City of London, for an invention for—"Improvements in combining materials to be used in substitution of whalebone and other flexible and elastic substances."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                 |
| DUNN.<br>GREAVES.<br>WATTS.<br>15th December 1852. | 1071. THOMAS DUNN, of Pendleton, near Manchester, in the County of Lancaster, Engineer, HUGH GREAVES, of Manchester aforesaid, Engineer, and WILLIAM WATTS, junior, of Miles Platting, near Manchester aforesaid, Engineer, for an invention for—"Improvements in machinery and apparatus for altering the position of engines and carriages on railways."<br><i>Letters Patent sealed.</i> |
| FONTAINE MOREAU.<br>16th December 1852.            | 1072. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"An improved lamp, which he calls 'Lamp Omnibus.'"— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                           |
| COUNTRY.<br>16th December 1852.                    | 1073. ANDRÉ COUNTRY, of Nantes, in the Empire of France, Manufacturer, and of 4, South Street, Finsbury, London, for an invention for—"Improvements in the manufacture of bread and biscuits."<br><i>Letters Patent sealed.</i>                                                                                                                                                             |
| PAYNE.<br>16th December 1852.                      | 1074. JOHN JEREMIAH PAYNE, of No. 5, St. Stephen's Terrace, Wharf Road, King's Cross, in the County of Middlesex, for an invention for—"An improved axle in two parts, applicable to railway and every other description of carriages and vehicles, both public and private."<br><i>Provisional protection only.</i>                                                                        |
| BARLOW.<br>16th December 1852.                     | 1075. CHARLES BARLOW, of Chancery Lane, London, for an invention for—"Improvements in bleaching, purifying, and concentrating sulphuric acid, parts of which invention are applicable to evaporating other liquids."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                              |
| HEALEY.<br>16th December 1852.                     | 1076. JOHN HEALEY, of Bolton-le-Moors, in the County of Lancaster, Spindle Maker, for an invention for—"The application of glass and enamel to the flyers and other parts of machinery used in the preparing, spinning, doubling, winding, warping, dressing, and weaving of cotton, wool, flax, silk, and other fibrous materials."<br><i>Letters Patent sealed.</i>                       |
| BLADES.<br>16th December 1852.                     | 1077. RICHARD BLADES, of Liverpool, in the County of Lancaster, Surveyor, for an invention for—"Certain improvements in the method of cleansing sewers and drains, and in the machinery or apparatus connected therewith."<br><i>Letters Patent sealed.</i>                                                                                                                                 |
| STEVENS.<br>16th December 1852.                    | 1078. JAMES STEVENS, of Birmingham, in the County of Warwick, Glass Manufacturer, for an invention for—"Improvements in grinding and polishing lenses."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                    |



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| KNOWLES.<br>16th December 1852.   | 1079. SIR FRANCIS CHARLES KNOWLES, of Lovell Hill, in the County of Berks, Baronet, for an invention for—"Improvements in the manufacture of iron."<br><i>Letters Patent sealed.</i>                                                                                                               |
| MOTLEY.<br>16th December 1852.    | 1080. THOMAS MOTLEY, of the City and County of Bristol, Civil Engineer, for an invention for—"Improvements in constructing the tablets, letters, and figures for indicating the names, designations, or numbers of streets, houses, buildings, and other places."<br><i>Letters Patent sealed.</i> |
| BELLFORD.<br>16th December 1852.  | 1081. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, Patent Agent, for an invention for—"A new system of stoppering bottles and other vessels."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                       |
| SLATE.<br>16th December 1852.     | 1082. ARCHIBALD SLATE, of Woodside Iron Works, near Dudley, in the County of Worcester, Civil Engineer, for an invention for—"An improvement in propulsign."<br><i>Letters Patent sealed.</i>                                                                                                      |
| SLATE.<br>16th December 1852.     | 1083. ARCHIBALD SLATE, of Woodside Iron Works, near Dudley, in the County of Worcester, Civil Engineer, for an invention for—"Improvements in the production of motive-power from elastic fluids."<br><i>Letters Patent sealed.</i>                                                                |
| SLATE.<br>16th December 1852.     | 1084. ARCHIBALD SLATE, of Woodside Iron Works, near Dudley, in the County of Worcester, Civil Engineer, for an invention for—"Improvements in propelling vessels."<br><i>Letters Patent sealed.</i>                                                                                                |
| DUNLOP.<br>16th December 1852.    | 1085. JAMES DUNLOP, of Haddington, in the County of Haddington, Scotland, Saddler, for an invention for—"Improvements in saddles."<br><i>Letters Patent sealed.</i>                                                                                                                                |
| MICHIELS.<br>16th December 1852.  | 1086. GEORGE MICHIELS, of 57, Holywell Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in the manufacture and purification of gas."<br><i>Letters Patent sealed.</i>                                                                                           |
| SIDNEY.<br>16th December 1852.    | 1087. GEORGE SANDS SIDNEY, of the Willows, Brixton Road, in the County of Surrey, Gentleman, for an invention for—"Improvements in jugs or vessels for containing liquids."<br><i>Letters Patent sealed; no specification filed.</i>                                                               |
| KENYON.<br>17th December 1852.    | 1088. HENRY KENYON, of Liverpool, in the County of Lancaster, Bone-grinder, for an invention for—"Improvements in machinery for grinding bones and other substances."<br><i>Provisional protection only.</i>                                                                                       |
| BRAMWELL.<br>17th December 1852.  | 1089. FREDERICK JOSEPH BRAMWELL, of Millwall, in the County of Middlesex, Engineer, for an invention for—"Improvements in steam-engines."<br><i>Letters Patent sealed.</i>                                                                                                                         |
| SLATE.<br>17th December 1852.     | 1090. ARCHIBALD SLATE, of Woodside Iron Works, near Dudley, in the County of Worcester, Civil Engineer, for an invention for—"Certain improvements in the arrangements for working the slide valve for the induction and eduction of fluids."<br><i>Letters Patent sealed.</i>                     |
| SLATE.<br>17th December 1852.     | 1091. ARCHIBALD SLATE, of Woodside Iron Works, near Dudley, in the County of Worcester, for—"An invention in steam-boilers."<br><i>Letters Patent sealed.</i>                                                                                                                                      |
| BILLINGS.<br>17th December 1852.  | 1092. ROBERT WILLIAM BILLINGS, of St. Mary's Road, Canonbury, in the County of Middlesex, Architect, for an invention for—"Improved apparatus for ventilating chimneys and apartments."<br><i>Provisional protection only.</i>                                                                     |
| WILKINSON.<br>17th December 1852. | 1093. WILLIAM WILKINSON, of the Town and County of Nottingham, Framework-knitter, for an invention for—"Improvements in the manufacture of looped pile and cut fabrics, and the machinery employed therein."<br><i>Letters Patent sealed.</i>                                                      |
| KRUPP.<br>17th December 1852.     | 1094. ALFRED KRUPP, of Essen, in the Kingdom of Prussia, Cast-steel Manufacturer, for an invention for—"Improvements in cannons."<br><i>Letters Patent sealed.</i>                                                                                                                                 |
| KINGSTON.<br>17th December 1852.  | 1095. JOHN FILMORE KINGSTON, of Carrol County, in the State of Maryland, United States of America, Engineer, for an invention for—"Improvements in obtaining reciprocating motion, and in propelling and steering vessels."<br><i>Letters Patent sealed.</i>                                       |
| LANGRIDGE.<br>17th December 1852. | 1096. JAMES LANGRIDGE, of the firm of George Langridge and Company, of Bristol, in the County of Somerset, Stay Manufacturer, for an invention for—"Improvements in the manufacture of stays."<br><i>Letters Patent sealed.</i>                                                                    |
| MATTHEWS.<br>18th December 1852.  | 1097. JOSEPH MATTHEWS, of Stricklandgate, Kendal, in the County of Westmoreland, Gunmaker, for an invention for—"A burglary alarm."<br><i>Letters Patent sealed.</i>                                                                                                                               |



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| THOMSON.<br>18th December 1852.                               | 1098. GEORGE THOMSON, of Dalston, in the County of Middlesex, Cabinet Maker, for an invention for—"A machine for cutting wood."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                        |
| HALL.<br>18th December 1852.                                  | 1099. THOMAS YOUNG HALL, of the Borough and County of Newcastle-upon-Tyne, Coal Owner, for an invention for—"Improvements in safety lamps."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                      |
| ROBERTSON.<br>18th December 1852.                             | 1100. WILLIAM ROBERTSON, of Barrhead, in the County of Renfrew, Scotland, Machine Maker, for an invention for—"Improvements in certain machines for spinning and doubling cotton and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                        |
| ELLIOTT.<br>18th December 1852.                               | 1101. THOMAS ELLIOTT, of Stockton-on-Tees, in the County of Durham, Engineer, for an invention for—"Improvements in steam-engines, which are also applicable to pumps."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                |
| WESTERMAN.<br>18th December 1852.                             | 1102. JOSEPH ALEXANDER WESTERMAN, of Sestri Ponente, near Genoa, in the Kingdom of Sardinia, Civil Engineer, for an invention for—"Improvements in the carbonization of turf, and the manufacture of paper and fuel therefrom."<br><i>Provisional protection only.</i>                                                                                                                                                                                                  |
| SCHISCHKAR.<br>18th December 1852.                            | 1103. EDWARD SCHISCHKAR, of the firm of James Akroyd and Son, of Halifax, in the County of York, Manufacturers, for an invention for—"Improvements in dyeing and colouring yarns and textile fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                 |
| SCHISCHKAR.<br>18th December 1852.                            | 1104. EDWARD SCHISCHKAR, of the firm of James Akroyd and Son, of Halifax, in the County of York, Manufacturers, for an invention for—"Improvements in colouring or staining yarns and textile fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                |
| BOUTIGNY.<br>18th December 1852.                              | 1105. CHARLES CONSTANT BOUTIGNY, of Evreux, in the Empire of France, Chemist, for an invention for—"Improvements in distillation, and in the apparatus employed therein."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                              |
| CLAY.<br>18th December 1852.                                  | 1106. JOHN CLAY, of Cottingham, in the East Riding of the County of York, Esquire, for an invention for—"Improvements in the manufacture of coal gas."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                 |
| EAST.<br>18th December 1852.                                  | 1107. WILLIAM EAST, of Spalding, in the County of Lincoln, Builder, for an invention for—"Improvements in machinery for crushing clods for dibbling and drilling land and sowing seeds."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                               |
| ADORNO.<br>20th December 1852.                                | 1108. JUAN NEPOMUCENO ADORNO, of Golden Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of cigars, (cigarettes,) and other similar articles."<br><i>Complete specification; Letters Patent sealed.</i>                                                                                                                                                                                                             |
| DURANDEAU.<br>20th December 1852.                             | 1109. JEAN DURANDEAU, of Paris, in the Empire of France, and of Castle Street, Holborn, London, General Manager of the firm Durandean, junior, and Chauveau, for an invention for—"Certain means of obtaining marks and designs in paper."<br><i>Provisional protection only.</i>                                                                                                                                                                                       |
| LINGARD.<br>20th December 1852.                               | 1110. GEORGE LINGARD, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in taps, and apparatus connected therewith, for admitting air to beer and other liquors under draught."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                |
| WILKINSON.<br>20th December 1852.                             | 1111. WILLIAM WILKINSON, of the Town and County of the Town of Nottingham, Framework-knitter, for an invention for—"Improvements in the manufacture of paper and pasteboard, and in the production of a substance applicable for veneers, panels, and to many purposes to which gutta-percha and papier-mâché are applicable."<br><i>Letters Patent sealed.</i>                                                                                                         |
| FONTAINE-MOREAU.<br>20th December 1852.                       | 1112. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"An improved mode of constructing night stools and utensils, waterclosets, urinaries, and other recipients of fecal matters; also applicable to apparatus for containing fluids liable to or in a state of decomposition."<br><i>A communication. Provisional protection only.</i> |
| PILKINGTON.<br>PILKINGTON.<br>PEDIGOR.<br>20th December 1852. | 1113. CHARLES PILKINGTON, THOMAS PILKINGTON, and ABRAHAM PEDIGOR, of Sheffield, in the County of York, Joiners' Tool Makers, for an invention for—"An improved joiner's brace."<br><i>Complete specification; Letters Patent sealed.</i>                                                                                                                                                                                                                                |



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| WATSON.<br>20th December 1852.               | 1114. CHARLES WATSON, of the Bazaar Harness Department, King Street, Portman Square, in the County of Middlesex, Saddler, for an invention for—"Improvements in carriage and stable brushes."<br><i>Provisional protection only.</i>                                                                                                      |
| SILVER.<br>20th December 1852.               | 1115. WILLIAM JOHN SILVER, of 47, Clark Street, Stepney, in the County of Middlesex, for an invention for—"Improvements in giving motion to capstan and other barrels."<br><i>Letters Patent sealed.</i>                                                                                                                                  |
| GWYNNE.<br>WILSON.<br>20th December 1852.    | 1116. GEORGE GWYNNE, of Hyde Park Square, in the County of Middlesex, Esquire, and GEORGE FERGUSON WILSON, of Belmont, Vauxhall, in the County of Surrey, Managing Director of Price's Patent Candle Company, for an invention for—"Improvements in the manufacture of candles, night lights, and soap."<br><i>Letters Patent sealed.</i> |
| POWELL.<br>21st December 1852.               | 1117. ROBERT POWELL, of Berwick Street, Golden Square, in the County of Middlesex, Tailor and Clothier, for an invention for—"Improvements in coats and outer garments."<br><i>Letters Patent sealed.</i>                                                                                                                                 |
| D'ALBERT.<br>21st December 1852.             | 1118. FERDINAND D'ALBERT, of No. 4, South Street, Finsbury, in the County of Middlesex, Gentleman, for an invention for—"A certain chemical combination for replacing indigo, which he calls 'D'Albert Blue.'"<br><i>Letters Patent sealed.</i>                                                                                           |
| MOINIER.<br>BOUTIGNY.<br>21st December 1852. | 1119. JEAN BAPTISTE MOINIER, of Rue de Marseille, and CHARLES CONSTANT BOUTIGNY, of Rue de Flandre, of La Villette, France, for an invention for—"Improvements in concentrating syrups and other solutions, and in distillation."<br><i>Letters Patent sealed.</i>                                                                        |
| MOINIER.<br>BOUTIGNY.<br>21st December 1852. | 1120. JEAN BAPTISTE MOINIER, of Rue de Marseille, and CHARLES CONSTANT BOUTIGNY, of Rue de Flandre, of La Villette, France, for an invention for—"Improvements in distilling fatty matters."<br><i>Letters Patent sealed.</i>                                                                                                             |
| BEADON.<br>21st December 1852.               | 1121. GEORGE BEADON, of Creechbarrow, near Taunton, in the County of Somerset, now of Saint Mary's, Scilly, Commander in the Royal Navy, for an invention for—"Improvements in constructing and propelling ships and vessels."<br><i>Letters Patent sealed.</i>                                                                           |
| AKRILL.<br>21st December 1852.               | 1122. JOHN AKRILL, of Artichoke Hill, near the London Docks, in the County of Middlesex, for an invention for—"Improvements in the manufacture of bricks, tiles, and other earthenware articles."<br><i>Provisional protection only.</i>                                                                                                  |
| DE LA RUE.<br>21st December 1852.            | 1123. WARREN DE LA RUE, of Bunhill Row, in the County of Middlesex, for an invention for—"Improvements in preparing the surfaces of paper and cardboard."<br><i>Letters Patent sealed.</i>                                                                                                                                                |
| AKRILL.<br>21st December 1852.               | 1124. JOHN AKRILL, of Artichoke Hill, near the London Docks, in the County of Middlesex, for an invention for—"Improvements in the manufacture of crucibles."<br><i>Provisional protection only.</i>                                                                                                                                      |
| MOORE.<br>21st December 1852.                | 1125. EDWARD DUKE MOORE, of Ranton Abbey, near Eccleshall, in the County of Stafford, Merchant, for an invention for—"An improved preparation of malt and hops."<br><i>Provisional protection only.</i>                                                                                                                                   |
| NEWTON.<br>21st December 1852.               | 1126. WILLIAM EDWARD NEWTON, of the Office for Patents, 65, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in lamps, and in apparatus to be used therewith."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                     |
| ROYDES.<br>21st December 1852.               | 1127. JOHN ROYDES, of Greengate, near Rochdale, in the County of Lancaster, Cotton Carder, for an invention for—"Improvements in machinery or apparatus for drawing cotton and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                                                |
| MOSELY.<br>21st December 1852.               | 1128. EPHRAIM MOSELY, of Grosvenor Street, in the County of Middlesex, Dentist, for an invention for—"Improvements in the manufacture of artificial masticating apparatus."<br><i>Letters Patent sealed.</i>                                                                                                                              |
| QUINCHEZ.<br>22nd December 1852.             | 1129. CELESTINE DENIS VEUVE QUINCHEZ, of No. 35, Rue Bourbon Villeneuve, in Paris, for an invention for—"A new or improved fabric or texture, which may be used for making mantles, bonnets, and other articles of female attire."<br><i>Provisional protection only.</i>                                                                 |



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| NEWTON.<br>22nd December 1852.              | 1130. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the means of urging the fires and increasing the draft of furnaces, and in arresting the sparks given off from the chimneys of locomotive engines."— <i>A communication.</i><br><i>Letters Patent sealed.</i> |
| ROBERTS.<br>22nd December 1852.             | 1131. JOHN ROBERTS, of Upnor, in the Parish of Frindsbury and County of Kent, Potter, for an invention for—"Improvements in apparatus for preserving animal and vegetable matters, and for cooling wines and other liquids." <i>Letters Patent sealed.</i>                                                                                                                         |
| HILLS.<br>22nd December 1852.               | 1132. FRANK CLARKE HILLS, of Deptford, in the County of Kent, Manufacturing Chemist, for an invention for—"Improvements in purifying gas." <i>Letters Patent sealed.</i>                                                                                                                                                                                                           |
| JOHNSON.<br>22nd December 1852.             | 1133. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for forging iron and other metals." <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                             |
| KINGSTON.<br>22nd December 1852.            | 1134. JOHN FILMORE KINGSTON, of Carrol County, Maryland, in the United States of America, Engineer, for an invention for—"Improvements in obtaining motive-power by electro-magnets." <i>Letters Patent sealed.</i>                                                                                                                                                                |
| ASPDIN.<br>22nd December 1852.              | 1135. WILLIAM ASPDIN, of Blackwall, Gateshead-upon-Tyne, in the County of Durham, Cement Manufacturer, for an invention for—"Improvements in the manufacture of Portland and other cements." <i>Letters Patent sealed.</i>                                                                                                                                                         |
| GREENSHIELDS.<br>22nd December 1852.        | 1136. THOMAS GREENSHIELDS, of Stoke Works, in the County of Worcester, for an invention for—"Improvements in the manufacture of alkali." <i>Letters Patent sealed.</i>                                                                                                                                                                                                             |
| AYCKBOURN.<br>22nd December 1852.           | 1137. FREDERICK AYCKBOURN, of 99, Guildford Street, Russell Square, in the County of Middlesex, Patent Folding Boat Manufacturer, for an invention for—"Improvements in rendering certain materials impervious by air or water." <i>Letters Patent sealed.</i>                                                                                                                     |
| VICARS.<br>VICARS.<br>22nd December 1852.   | 1138. THOMAS VICARS, the elder, and THOMAS VICARS, the younger, both of Liverpool, in the County of Lancaster, Engineers, for an invention for—"Improvements in baking ovens, and apparatus for placing the bread, biscuits, or other articles to be baked therein." <i>Letters Patent sealed.</i>                                                                                 |
| LIVESEY.<br>22nd December 1852.             | 1139. JOHN LIVESEY, of New Lenton, in the County of Nottingham, Draughtsman, for an invention for—"Improvements in lace machinery, and in piled fabrics made from such machinery." <i>Letters Patent sealed.</i>                                                                                                                                                                   |
| HYDE.<br>22nd December 1852.                | 1140. JOHN MOORE HYDE, of 1, Quay, in the City and County of Bristol, Philosophical Instrument Maker, for an invention for—"Improvements in steam engines, and the production of steam for the same." <i>Letters Patent sealed.</i>                                                                                                                                                |
| HOBSON.<br>23rd December 1852.              | 1141. ALFRED JOHN HOBSON, of Walsall, in the County of Stafford, Writing Clerk, for an invention for—"A new or improved metallic bedstead." <i>Letters Patent sealed.</i>                                                                                                                                                                                                          |
| COUCHMAN.<br>23rd December 1852.            | 1142. JOHN WILLIAM COUCHMAN, 8, Prince's Terrace, Pultney Street, Barnsbury Road, for an invention for—"Safely fastening window sashes." <i>Provisional protection only.</i>                                                                                                                                                                                                       |
| DEUTSCH.<br>23rd December 1852.             | 1143. ALEXANDRE DEUTSCH, Manufacturer, of Paris, in the French Empire, for an invention for—"Certain improvements in treating oil of Colza and similar oils." <i>Letters Patent sealed.</i>                                                                                                                                                                                        |
| BINKS.<br>23rd December 1852.               | 1144. CHRISTOPHER BINKS, of Stratford, in the County of Essex, for an invention for—"Improvements in the composition of paints." <i>Provisional protection only.</i>                                                                                                                                                                                                               |
| WESTLEY.<br>BAYLISS.<br>23rd December 1852. | 1145. WILLIAM WESTLEY, of Derby, Engineer, and RICHARD BAYLISS, of Derby, Surveyor, for an invention for—"An improved fastener applicable to the fastening of window sashes, tables, and other similar purposes." <i>Letters Patent sealed.</i>                                                                                                                                    |
| MALINAU.<br>23rd December 1852.             | 1146. NICOLAS MALINAU, of Bordeaux, but temporary of 39, Rue de l'Echiquier, Paris, France, Manufacturer, for an invention for—"Improvements in stopping or covering bottles, decanters, pots, and other receptacles of glass, porcelain, and earthenware, and in the machinery connected therewith." <i>Letters Patent sealed.</i>                                                |



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| GWYNNE.<br>WILSON.<br>23rd December 1852.     | 1147. GEORGE GWYNNE, of Hyde Park Square, in the County of Middlesex, Esquire, and GEORGE FERGUSON WILSON, of Belmont, Vauxhall, in the County of Surrey, Managing Director of Price's Patent Candle Company, for an invention for—"Improvements in treating fatty and oily matters."<br><i>Letters Patent sealed.</i>                                             |
| ROPER.<br>23rd December 1852.                 | 1148. WILLIAM ROPER, of 33, Hall Street, City Road, in the County of Middlesex, Die-sinker, for an invention for—"Improvements in shaping and ornamenting sheet metal."<br><i>Provisional protection only.</i>                                                                                                                                                     |
| DAVID.<br>23rd December 1852.                 | 1149. JEAN LOUIS DAVID, Manufacturer, of Paris, in the French Empire for an invention for—"Certain improvements in the manufacture of woollen fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                           |
| FAIRBAIRN.<br>MATHERS.<br>23rd December 1852. | 1150. PETER FAIRBAIRN, of Leeds, in the County of York, Machinist, and SAMUEL Renny MATHERS, of the same place, Flax Spinner, for an invention for—"Certain improvements in machinery for carding flax, hemp, China grass, and jute, and the tow of the several materials before-mentioned."<br><i>Letters Patent sealed; no specification filed.</i>              |
| DAVIS.<br>23rd December 1852.                 | 1151. JAMES DAVIS, of Hemel Hempstead, in the County of Hertford, Agricultural Implement Maker, for an invention for—"Improvements in machinery for manufacturing bricks and tiles."<br><i>Provisional protection only.</i>                                                                                                                                        |
| PEYRE.<br>DOLQUES.<br>24th December 1852.     | 1152. FULCRAN PEYRE and MICHEL DOLQUES, of Lodève, department of l'Herault, in France, for an invention for—"Improvements in machinery for dressing woollen cloth."<br><i>Letters Patent sealed.</i>                                                                                                                                                               |
| HINKS.<br>WELLS.<br>24th December 1852.       | 1153. JOHN HINKS, of Birmingham, and GEORGE WELLS, of Birmingham, Manufacturers, and Co-partners, for an invention for—"A new or improved pen-holder."<br><i>Letters Patent sealed.</i>                                                                                                                                                                            |
| MURPHY.<br>24th December 1852.                | 1154. JOHN LOWTHER MURPHY, of Birmingham, Dentist, for an invention for—"An improvement in drawing off liquids from barrels and other vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| BURCH.<br>24th December 1852.                 | 1155. JOSEPH BURCH, of Crag Hall, near Macclesfield, in the County of Chester, Carpet Manufacturer, for an invention for—"Certain improvements in machinery for reaping, loading, stacking, and storing grain and other agricultural produce."<br><i>Letters Patent sealed.</i>                                                                                    |
| BURCH.<br>24th December 1852.                 | 1156. JOSEPH BURCH, of Crag Hall, near Macclesfield, in the County of Chester, Carpet Manufacturer, for an invention for—"Certain improvements in machinery applicable to thrashing, winnowing, cleaning, and sorting grain, and to other agricultural purposes."<br><i>Letters Patent sealed.</i>                                                                 |
| BURCH.<br>24th December 1852.                 | 1157. JOSEPH BURCH, of Crag Hall, near Macclesfield, in the County of Chester, Carpet Manufacturer, for an invention for—"Certain improvements in passenger and other carriages."<br><i>Letters Patent sealed.</i>                                                                                                                                                 |
| RAMSELL.<br>24th December 1852.               | 1158. WILLIAM RAMSELL, of Deptford, in the County of Kent, Boiler Maker, for an invention for—"Improvements in boilers for generating steam and hot air, together or separately."<br><i>Letters Patent sealed.</i>                                                                                                                                                 |
| GRIFFITHS.<br>24th December 1852.             | 1159. ROBERT GRIFFITHS, of 25, Great Ormond Street, in the County of Middlesex, for an invention for—"Improvements in giving motion to drills."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| MICHIELS.<br>24th December 1852.              | 1160. GEORGE MICHIELS, of 57, Holywell Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in the manufacture of gas."<br><i>Letters Patent sealed.</i>                                                                                                                                                                            |
| BOWER.<br>24th December 1852.                 | 1161. GEORGE BOWER, of Saint Neots, in the County of Huntingdon, Ironmonger and Ironfounder, for an invention for—"Improvements in the manufacture of gas for illumination."<br><i>Letters Patent sealed.</i>                                                                                                                                                      |
| WILSON.<br>24th December 1852.                | 1162. JAMES GODFREY WILSON, of Lindsey House, Chelsea, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of carriages and vehicles for railroads and common roads, parts of the said improvements being also applicable to parts of locomotive-engines used on railroads."<br><i>Provisional protection only.</i> |



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| <p>NEWTON.<br/>24th December 1852.</p> <p>LUBLINSKI.<br/>24th December 1852.</p> <p>TUER.<br/>HODGSON.<br/>HALL.<br/>24th December 1852.</p> <p>NESMOND.<br/>24th December 1852.</p> <p>ANDERSON.<br/>27th December 1852.</p> <p>INGHAM.<br/>27th December 1852.</p> <p>GORDON.<br/>27th December 1852.</p> <p>WILSON.<br/>27th December 1852.</p> <p>GWYNNE.<br/>WILSON.<br/>27th December 1852.</p> <p>MASON.<br/>28th December 1852.</p> <p>DARLING.<br/>SPENCER.<br/>28th December 1852.</p> <p>JOHNSON.<br/>28th December 1852.</p> <p>GIRAUD.<br/>28th December 1852.</p> <p>GIDMAN.<br/>28th December 1852.</p> <p>MUCKLOW.<br/>28th December 1852.</p> <p>MUCKLOW.<br/>28th December 1852.</p> | <p>1163. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in obtaining and applying motive-power."—<i>A communication.</i><br/><i>Letters Patent sealed.</i></p> <p>1164. ROBERT LUBLINSKI, of Devonshire Street, Bishopsgate, in the City of London, Sculptor in Ivory, for an invention for—"An improved joint for umbrella and parasol sticks."<br/><i>Provisional protection only.</i></p> <p>1165. WILLIAM TUER, WILLIAM HODGSON, and ROBERT HALL, of Bury, in the County of Lancaster, Machine Makers, for an invention for—"Improvements in the manufacture of textile fabrics and in machinery or apparatus for weaving, part of which is also applicable to machinery for preparing textile materials."<br/><i>Letters Patent sealed.</i></p> <p>1166. PIERRE CHARLES NESMOND, of Bellac, in the department of Haute Vienne, and in the Empire of France, for an invention for—"Improvements in machinery applicable to the manufacture of ice and to refrigerative purposes generally."<br/><i>Letters Patent sealed.</i></p> <p>1167. JOHN ANDERSON, of Rugby, in the County of Warwick, Ironfounder, for an invention for—"Heating and ventilating apartments and for remedying smoky chimneys by a radiant ventilating grate."<br/><i>Letters Patent sealed.</i></p> <p>1168. GEORGE INGHAM, of Rochdale, in the County of Lancaster, Carder, for an invention for—"Certain improvements in machinery for drawing cotton and other fibrous materials."<br/><i>Letters Patent sealed.</i></p> <p>1169. JOHN FREDERICK GORDON, Clerk, of Strangford, in the County of Down, for an invention for—"Facilitating the turning of four-wheeled carriages, and bringing the front and hind wheels nearer to each other; entitled 'The caster axle.'"<br/><i>Letters Patent sealed.</i></p> <p>1170. GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, in the County of Surrey, Managing Director of Price's Patent Candle Company, for an invention for—"Improvements in treating certain fatty bodies."<br/><i>Letters Patent sealed.</i></p> <p>1171. GEORGE GWYNNE, of Hyde Park Square, in the County of Middlesex, Esquire, and GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, in the County of Surrey, Managing Director of Price's Patent Candle Company, for an invention for—"Improvements in treating fatty and oily matters."<br/><i>Letters Patent sealed.</i></p> <p>1172. JOHN MASON, of Rochdale, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in machinery or apparatus for preparing cotton and other fibrous substances for spinning."<br/><i>Letters Patent sealed.</i></p> <p>1173. JAMES DARLING, of Manchester, in the county of Lancaster, Book-keeper, and HENRY SPENCER, of Rochdale, in the county of Lancaster, Manager, for an invention for—"Improvements in machinery or apparatus for preparing and spinning cotton and other fibrous substances."<br/><i>Letters Patent sealed.</i></p> <p>1174. WILLIAM BECKETT JOHNSON, of Manchester, in the County of Lancaster, Manager for Messrs. Ormerod and Son, Engineers and Iron Founders, for an invention for—"Improvements steam-boilers, and in apparatus connected therewith."<br/><i>Letters Patent sealed.</i></p> <p>1175. PIERRE FRANÇOIS GIRAUD, of Paris, in the Empire of France, for an invention of—"An apparatus for the interior of bonnets, to fix them on the head."<br/><i>Letters Patent sealed.</i></p> <p>1176. JOSEPH GIDMAN, of Prescott, in the County of Lancaster, House Agent, for an invention for—"A skate."<br/><i>Provisional protection only.</i></p> <p>1177. EDWARD MUCKLOW, of Bury, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Certain improvements in the construction of retorts for the manufacture of pyroligneous acid, or for other purposes of destructive distillation."<br/><i>Letters Patent sealed.</i></p> <p>1178. EDWARD MUCKLOW, of Bury, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Certain improvements in machinery or apparatus for cutting or rasping dye-woods."<br/><i>Letters Patent sealed.</i></p> |
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| MUCKLOW.<br>28th December 1852.              | 1179. EDWARD MUCKLOW, of Bury, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Certain improvements in preventing the escape or radiation of heat from steam boilers or generators, and also in preserving marine and other boilers from the effects of incrustation."<br><i>Provisional protection only.</i>                                                              |
| BUSFIELD.<br>28th December 1852.             | 1180. WILLIAM BUSFIELD, of Bradford, in the County of York, Overlooker to Messrs. Waud and Company, of the same place, for an invention for—"Improvements in apparatus for combing wool and other fibrous substances requiring like process."<br><i>Letters Patent sealed.</i>                                                                                                                      |
| BERNARD.<br>KOCH.<br>28th December 1852.     | 1181. AMI BERNARD, of Belfast, in the County of Antrim, in Ireland, Manufacturer, and AIMÉ KOCH, of Belfast aforesaid, Manufacturer, for an invention for—"Improvements in machinery and apparatus for preparing flax-straw, flax, and certain other fibrous substances, part of which improvements are applicable to machinery for scutching and heckling."<br><i>Provisional protection only.</i> |
| WEBSTER.<br>28th December 1852.              | 1182. JAMES WEBSTER, of Leicester, in the County of Leicester, Engineer, for an invention for—"Improvements in the manufacture of springs." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                           |
| JUNOT.<br>28th December 1852.                | 1183. CLAUDE JOSEPH EDMÉE JUNOT, of No. 15, Rue Basse, Passy, in the Empire of France, for an invention for—"Improvements in the mode of reducing several metallic substances hitherto unused, and applying them, so prepared, to the plating of other metals and substances by means of electricity."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                    |
| CLEGG.<br>28th December 1852.                | 1184. SAMUEL CLEGG, of 24, Regent's Square, in the County of Middlesex, for an invention for—"Improvements in apparatus for measuring gas."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                        |
| CALVERT.<br>28th December 1852.              | 1185. FRANCIS ALTON CALVERT, of Manchester, in the County of Lancaster, Engineer, for an invention for—"A universal ratchet drill."— <i>A communication.</i><br><i>Complete specification; Letters Patent sealed.</i>                                                                                                                                                                               |
| COPLING.<br>29th December 1852.              | 1186. JOHN COPLING, junior, of the Grove, Hackney, in the County of Middlesex, Esquire, for an invention for—"A safeguard railway-signal." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                            |
| KIBBLE.<br>29th December 1852.               | 1187. HENRY KIBBLE, of Guilford, in the County of Surrey, Gentleman, for an invention for—"A traveller's monitor, or ticket and parcel protector."<br><i>Provisional protection only.</i>                                                                                                                                                                                                           |
| WHICHCORD.<br>ROSSER.<br>29th December 1852. | 1188. JOHN WHICHCORD, the younger, and SAMUEL EGAN ROSSER, of Great Russell Street, Bloomsbury, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in the mode of burning and applying gas for light and heat."<br><i>Letters Patent sealed.</i>                                                                                                                |
| GLORNEY.<br>29th December 1852.              | 1189. BENJAMIN GLORNEY, of Mardyke Mills, near Dublin, in the Kingdom of Ireland, Miller and Manufacturer, for an invention for—"Improvements in obtaining and applying motive-power." <i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                        |
| PITTAR.<br>29th December 1852.               | 1190. SAMUEL JOHN PITTAR, of No. 13, Paris Street, Lambeth, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in goloshes or coverings for boots and shoes."<br><i>Provisional protection only.</i>                                                                                                                                                                       |
| NEWTON.<br>29th December 1852.               | 1191. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of carpets."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                 |
| BROWN.<br>29th December 1852.                | 1192. ARCHIBALD DOUGLAS BROWN, of Glasgow, in the County of Lanark, North Britain, Cabinet Maker, for an invention for—"Improvements in the construction of portable articles of furniture."<br><i>Letters Patent sealed.</i>                                                                                                                                                                       |
| BROWN.<br>29th December 1852.                | 1193. WILLIAM BROWN, of Chapel Hall, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in forging, shaping, and crushing iron and other materials, which improvements or modifications thereof are also applicable for obtaining and applying motive-power for general purposes."<br><i>Provisional protection only.</i>                                         |
| COOK.<br>29th December 1852.                 | 1194. JAMES EDGAR COOK, of Greenock, in the County of Renfrew, North Britain, Booking Clerk, Caledonian Railway, Greenock Station, for an invention for—"An improved composition for the prevention of the decay and fouling of ships' bottoms and other exposed surfaces."<br><i>Letters Patent sealed.</i>                                                                                        |



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| <p>FRIEND.<br/>29th December 1852.</p> <p>POWER.<br/>29th December 1852.</p> <p>BELLFORD.<br/>29th December 1852.</p> <p>BELLFORD.<br/>29th December 1852.</p> <p>WALKER.<br/>30th December 1852.</p> <p>WALKER.<br/>30th December 1852.</p> <p>HUTCHINSON.<br/>30th December 1852.</p> <p>WARD.<br/>BURMAN.<br/>30th December 1852.</p> <p>OLIVER.<br/>30th December 1852.</p> <p>SINGER.<br/>30th December 1852.</p> <p>NEWTON.<br/>30th December 1852.</p> <p>TAYLERSON.<br/>30th December 1852.</p> <p>HARRISON.<br/>31st December 1852.</p> <p>PICKSLAY.<br/>31st December 1852.</p> <p>SMITH.<br/>31st December 1852.</p> <p>DIXON.<br/>31st December 1852.</p> <p>LORD.<br/>31st December 1852.</p> | <p>1195. JOHN WALTER FRIEND, of Canute Road, in the Town and County of Southampton, Watch and Clock Maker, for an invention for—"An improved method of measuring and registering the distance run by ships and boats proceeding through the water." <i>Provisional protection only.</i></p> <p>1196. JAMES POWER, Merchant, residing in Paris, 34, Rue de Penthievre, for an invention for—"Silvering all sorts of metals and of glass." <i>Letters Patent sealed.</i></p> <p>1197. AUGUSTE EDOUARD LORADOUX BELLFORD, of the United Patent Offices, 16, Castle Street, Holborn, London, for an invention for—"Certain improvements in machinery for grinding and reducing gold quartz to an impalpable powder, and amalgamating the said ground quartz with quicksilver; the same being applicable also to the pulverizing and washing of ores."—<i>A communication.</i> <i>Letters Patent sealed.</i></p> <p>1198. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, in the County of Middlesex, Patent Agent, for an invention for—"A new mode of advertising."—<i>A communication.</i> <i>Provisional protection only.</i></p> <p>1199. THOMAS WALKER, of Birmingham, in the County of Warwick, for an invention for—"Improvements in apparatus for regulating the speed of steam-engines." <i>Letters Patent sealed.</i></p> <p>1200. THOMAS WALKER, of Birmingham, in the County of Warwick, for an invention for—"Improvements in apparatus for regulating the dampers of steam-boiler and other evaporating furnaces, which apparatus is also applicable for indicating the pressure of steam or other fluids." <i>Letters Patent sealed.</i></p> <p>1201. HENRY HUTCHINSON, of Sheffield, in the County of York, Book-keeper, for an invention for—"Improvements in machines for washing bottles." <i>Letters Patent sealed.</i></p> <p>1202. JAMES WARD, Truss Maker, and WILLIAM BURMAN, Brickmaker, both of Stratford-on-Avon, in the County of Warwick, for an invention for—"Certain improvements in machinery for making bricks and tiles." <i>Letters Patent sealed.</i></p> <p>1203. ROBERT STEPHEN OLIVER, of the City of Edinburgh, Scotland, Clothier and Hatter, for an invention for—"Certain improvements in waterproof and other garments." <i>Letters Patent sealed.</i></p> <p>1204. JULIUS SINGER, of Mableton Place, Burton Crescent, in the County of Middlesex, Tailor, for an invention for—"Improvements in wearing-apparel." <i>Letters Patent sealed.</i></p> <p>1205. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved method of attaching metals to other metals."—<i>A communication.</i> <i>Provisional protection only.</i></p> <p>1206. ROBERT TAYLERSON, of 3, Indian King's Court, Newcastle-upon-Tyne, for an invention for—"Improvements in ship-building." <i>Letters Patent sealed.</i></p> <p>1207. THOMAS HARRISON, of Hough, in the County of Chester, Joiner, for an invention for—"Improvements in steam-engines." <i>Provisional protection only.</i></p> <p>1208. WILLIAM MORTON PICKSLAY, of the City of Brooklyn, State of New York and United States of America, for an invention for—"An improvement in the blast o furnaces, and which he designates the calorific blast, and which increases the effective power of furnaces."—<i>A communication.</i> <i>Provisional protection only.</i></p> <p>1209. THOMAS BENJAMIN SMITH, of Bristol, for an invention for—"Improvements in calcining certain ores, and in the construction of furnaces for that purpose, and for converting certain products arising in the process into an article of commerce not heretofore produced therefrom." <i>Letters Patent sealed.</i></p> <p>1210. DAVID DIXON, of Parsons' Mead, Croydon, in the County of Surrey, Engine-driver, for an invention for—"An improved arrangement of apparatus for retarding and stopping locomotive engines, tenders, and carriages." <i>Provisional protection only.</i></p> <p>1211. JAMES LORD, of the Inner Temple of the City of London, Barrister-at-Law, for an invention for—"Improvements in carriage-steps." <i>Letters Patent sealed.</i></p> |
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CHRONOLOGICAL INDEX  
FOR THE YEAR 1853.

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# CHRONOLOGICAL INDEX

For the Year 1853.

WILKINSON.  
1st January 1853.

1. WILLIAM WILKINSON, of the Town and County of the Town of Nottingham, Framework Knitter, for an invention for—"Improvements in taps and other apparatus for filtering and drawing off liquids." *Letters Patent sealed.*

BENTLEY.  
1st January 1853.

2. HENRY BENTLEY, of Spilsby, in the County of Lincoln, for an invention for—"Vulcanized india-rubber springs for trowsers and breeches, with instructions to adjust the same." *Provisional protection only.*

ADDISON.  
EICKE.  
1st January 1853.

3. JOHN ADDISON, Captain in the service of the Honourable East India Company, of 1, Baker Street, Portman Square, and HENRY S. EICKE, Gentleman, of 3, Lawn Place, South Lambeth, for an invention for—"Making a tessellated pavement." *Provisional protection only.*

EICKE.  
1st January 1853.

4. JUNIUS ST. JOHN EICKE, of 3, Lawn Place, South Lambeth, Gentleman, for an invention for—"Deodorizing and preparing American and other resins for mixing with grease, tallow, and wax, so as to improve them by giving them a greater hardness and consistency, and rendering them less liable to be effected by change of temperature." *Provisional protection only.*

WATSON.  
PROSSER.  
1st January 1853.

5. JOSEPH JOHN WILLIAM WATSON, of Old Kent Road, in the County of Surrey, Doctor of Philosophy, and WILLIAM PROSSER, of Adam Street, Adelphi, in the County of Middlesex, Gentleman, for an invention for—"An improved method of manufacturing steel and of carburizing iron." *Letters Patent sealed.*

BILLYEALD.  
1st January 1853.

6. THOMAS BILLYEALD, of Ison Green, in the Parish of Lenton, in the County of Nottingham, and of Albert Street, in the Town and County of the Town of Nottingham, Lace Manufacturer, for an invention for—"An improvement in the apparatus and arrangement of apparatus for making looped fabrics." *Letters Patent sealed.*

BROUGH.  
1st January 1853.

7. JOSEPH BROUGH, of Longton, Staffordshire, for an invention for—"A new manufacture of a vitrified substance, and its application alone or in combination with mineral, earthy, and plastic substances, to various useful purposes in the arts, and for certain other new applications of known plastic substances." *Letters Patent sealed.*

JOHNSON.  
1st January 1853.

8. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of oils, and the treatment thereof for lubricating purposes."—*A communication.* *Provisional protection only.*

TOMLINSON.  
1st January 1853.

9. MATTHEW TOMLINSON, of Hulme, Manchester, in the County of Lancaster, Druggists' Sundries Merchant, for an invention for—"Certain improvements in the manufacture of 'species jars,' or show jars." *Letters Patent sealed.*

HULETT.  
3rd January 1853.

10. DAVID HULETT, of High Holborn, for an invention for—"Improvements in the manufacture of ornaments for lamps, chandeliers, and architectural purposes." *Letters Patent sealed.*

BLEACKLEY.  
3rd January 1853.

11. JOHN BLEACKLEY, junior, of Myrtle Grove, Prestwich, in the County of Lancaster, Bleacher, for an invention for—"Improvements in machinery to be used in washing, bleaching, dyeing, and sizing yarns and fabrics." *Letters Patent sealed.*

CHAMEROY.  
3rd January 1853.

12. EDMUND AUGUSTIN CHAMEROY, of Paris, France, Manufacturer, for an invention for—"Improvements in motive-power engines, and in the application of motive-power to the same." *Letters Patent sealed.*

VAUDELIN.  
3rd January 1853.

13. LAZARE FRANÇOIS VAUDELIN, of Upper Charlotte Street, Fitzroy Square, in the County of Middlesex, for an invention for—"Improvements in apparatus for retarding and stopping railway-carriages." *Letters Patent sealed.*

AMOS.  
3rd January 1853.

14. CHARLES EDWARDS AMOS, of the Grove, Southwark, in the County of Surrey, Engineer, for an invention for—"Certain improvements in the construction of centrifugal pumps." *Letters Patent sealed.*



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| <p>FONTAINE MOREAU.<br/>4th January 1853.</p> <p>SHEPARD.<br/>4th January 1853.</p> <p>WELCH.<br/>MARGETSON.<br/>4th January 1853.</p> <p>BURNETT.<br/>4th January 1853.</p> <p>GWYNNE.<br/>WILSON.<br/>4th January 1853.</p> <p>NEWTON.<br/>5th January 1853.</p> <p>PASCAL.<br/>5th January 1853.</p> <p>GÉRARD.<br/>5th January 1853.</p> <p>L'HUYNES.<br/>5th January 1853.</p> <p>SHILTON.<br/>5th January 1853.</p> <p>WHITWORTH.<br/>5th January 1853.</p> <p>EDWARDS.<br/>5th January 1853.</p> <p>ARNOLD.<br/>5th January 1853.</p> <p>PENRICE.<br/>5th January 1853.</p> <p>BARDWELL.<br/>5th January 1853.</p> <p>GRILLET.<br/>6th January 1853.</p> <p>SHERINGHAM.<br/>6th January 1853.</p> | <p>15. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"Improvements in axle-boxes."—<i>A communication.</i><br/><i>Provisional protection only.</i></p> <p>16. EDWARD CLARENCE SHEPARD, of Duke Street, in the City of Westminster, Gentleman, for an invention for—"Improvements in the manufacture of gas."<br/><i>Letters Patent sealed.</i></p> <p>17. JOSEPH JAMES WELCH and JOHN STEWART MARGETSON, of Cheapside, in the City of London, for an invention for—"Certain improvements in the manufacture of travelling cases, wrappers, and certain articles of dress hitherto manufactured of leather."<br/><i>Letters Patent sealed.</i></p> <p>18. CHARLES JOHN BURNETT, of Edinburgh, Scotland, Gentleman, for an invention for—"Certain improvements in apparatus or mechanism for driving machinery through the agency of water."<br/><i>Provisional protection only.</i></p> <p>19. GEORGE GWYNNE, of Hyde Park Square, in the County of Middlesex, Esquire, and GEORGE FERGUSON WILSON, of Belmont, Vauxhall, in the County of Surrey, Managing Director of Price's Patent Candle Company, for an invention for—"Improvements in treating fatty and oily matters."<br/><i>Letters Patent sealed.</i></p> <p>20. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in atmospheric engines."—<i>A communication.</i><br/><i>Letters Patent sealed.</i></p> <p>21. JEAN BAPTISTE PASCAL, of Lyons, in the Empire of France, and of 18, Castle Street, Holborn, in the County of Middlesex, for an invention for—"Improvements in obtaining motive-power."<br/><i>Letters Patent sealed.</i></p> <p>22. GUSTAVE EUGÈNE MICHEL GÉRARD, of No. 12, Rue Hauteville, Paris, France, Manufacturer, and of 4, South Street, Finsbury, London, for an invention for—"Improvements in manufacturing and treating caoutchouc."<br/><i>Letters Patent sealed.</i></p> <p>23. GUSTAVE PAUL DE L'HUYNES, of 21, Frith Street, Soho Square, Medical Doctor, for an invention for—"Certain improvements in medical portative electro-galvanic apparatus."<br/><i>Letters Patent sealed.</i></p> <p>24. THOMAS SHILTON, of Baddesley Ensor, Warwickshire, for an invention for—"Certain improvements in weighing-machines."<br/><i>Letters Patent sealed.</i></p> <p>25. CHARLES FREDERICK WHITWORTH, of Brighton, in the County of Sussex, for an invention for—"Improvements in apparatus to be used in connexion with railway signals, for the purpose of indicating the approach of trains, and of preventing collisions."<br/><i>Letters Patent sealed.</i></p> <p>26. FRANCIS EDWARDS, of 26, Park Place, Toxteth Park, near Liverpool, in the County Palatine, of Lancaster, Enameller, for an invention for—"Improvements in the method of lettering, figuring, and ornamenting the surface of enamel used for dials and other purposes."<br/><i>Letters Patent sealed.</i></p> <p>27. FREDERICK ARNOLD, of Devonport, in the County of Devon, Ironmonger, for an invention for—"Improvements in heating the water in a bath or other vessel."<br/><i>Letters Patent sealed.</i></p> <p>28. HERBERT NEWTON PENRICE, of Sheffield, Lieutenant of the Royal Engineers, for an invention for—"Improvements in propelling vessels."<br/><i>Letters Patent sealed.</i></p> <p>29. WILLIAM BARDWELL, of 4, Great Queen Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in treating sewage waters and other matters."<br/><i>Letters Patent sealed.</i></p> <p>30. EMILE GRILLET, of Soho Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in renewing the teeth of files."<br/><i>Letters Patent sealed.</i></p> <p>31. WILLIAM LOUIS SHERINGHAM, of Southsea, in the County of Hants, a Captain in Her Majesty's Royal Navy, for an invention for—"Illuminating buoys and beacons in harbours, roadsteads, and rivers."<br/><i>Letters Patent sealed.</i></p> |
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| HUTCHINSON.<br>6th January 1853. | 32. EDWARD HUTCHINSON, of Tyldesly, in the County of Lancaster, Corn-miller, for an invention for—"Certain improvements in the mode or method of preparing, cleaning, drying, and otherwise treating wheat, pulse, seeds, and other grain."<br><i>Letters Patent sealed.</i>                                                                               |
| BROWNE.<br>6th January 1853.     | 33. JOHN BROWNE, of Charles Street, Regent Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction of ships or other navigable vessels, and in machinery or apparatus connected therewith."<br><i>Provisional protection only.</i>                                                                           |
| SAVAGE.<br>6th January 1853.     | 34. ROBERT WATSON SAVAGE, of 15, Saint James's Square, Pall Mall, within the City of Westminster, Gentleman, for an invention for—"Alarum bedstead."<br><i>Provisional protection only.</i>                                                                                                                                                                |
| CHAMEROY.<br>6th January 1853.   | 35. EDMOND AUGUSTIN CHAMEROY, of Paris, France, Manufacturer, for an invention for—"A new composition of different metals or metallic substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                                        |
| WHINERY.<br>6th January 1853.    | 36. ROBERT WHINERY, of Liverpool, in the County of Lancaster, Leather Merchant, for an invention for—"Certain improvements in or upon the manufacture and treatment of leather, either alone or in combination with other materials."<br><i>Letters Patent sealed.</i>                                                                                     |
| SMITH.<br>6th January 1853.      | 37. MICHAEL SMITH, of Liverpool, in the County of Lancaster, Gentleman, for an invention for—"Improvements in machinery for separating gold or other valuable substances from other materials."<br><i>Provisional protection only.</i>                                                                                                                     |
| NEWTON.<br>6th January 1853.     | 38. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in roving, spinning, or twisting cotton or other fibrous substances, which invention he denominates 'Larwill's improvements.'"<br><i>A communication. Letters Patent sealed.</i>                   |
| NEWTON.<br>6th January 1853.     | 39. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of bearings or steps for shafts, turn-tables, or moveable platforms, which invention he denominates 'Parry's improvements.'"<br><i>A communication. Letters Patent sealed.</i> |
| BEALES.<br>6th January 1853.     | 40. WILLIAM BEALES, of Louth, in the County of Lincoln, Engineer, for an invention for—"An improved cement for the resistance of fire."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| GRAHAM.<br>6th January 1853.     | 41. PETER GRAHAM, of Oxford Street, in the County of Middlesex, for an invention for—"Improvements in the manufacture of carpets and other piled fabrics."<br><i>A communication. Letters Patent sealed.</i>                                                                                                                                               |
| WARD.<br>6th January 1853.       | 42. WILLIAM SYKES WARD, of Leeds, in the County of York, Esquire, for an invention for—"A thermostat, or apparatus for the regulation of temperature, and of ventilation."<br><i>Letters Patent sealed.</i>                                                                                                                                                |
| WATSON.<br>6th January 1853.     | 43. WILLIAM WATSON, the younger, of Leeds, in the County of York, Manufacturing Chemist, for an invention for—"Improvements in apparatus for the manufacturing of prussiate of potash."<br><i>Letters Patent sealed.</i>                                                                                                                                   |
| DE BERGUE.<br>7th January 1853.  | 44. CHARLES DE BERGUE, of Dowgate Hill, in the City of London, Merchant, for an invention for—"Improvements in the permanent way of railways."<br><i>Letters Patent sealed.</i>                                                                                                                                                                            |
| PAPE.<br>7th January 1853.       | 45. THOMAS PAPE, of Loughborough, in the County of Leicester, Glove Manufacturer, for an invention for—"Improvements in circular frames, and in the fabrics and articles produced thereon."<br><i>Letters Patent sealed.</i>                                                                                                                               |
| SCOTT.<br>7th January 1853.      | 46. WILLIAM CHARLES SCOTT, of Camberwell, in the County of Surrey, Gentleman, for an invention for—"Improvements in wheels."<br><i>Provisional protection only.</i>                                                                                                                                                                                        |
| LANCASTER.<br>7th January 1853.  | 47. CHARLES WILLIAM LANCASTER, of New Bond Street, in the County of Middlesex, Gun Manufacturer, for an invention for—"An appendage to bullet-moulds."<br><i>Letters Patent sealed.</i>                                                                                                                                                                    |



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| <p>STEWART.<br/>7th January 1853.</p> <p>JAMES.<br/>7th January 1853.</p> <p>GITTINS.<br/>7th January 1853.</p> <p>MARSHALL.<br/>7th January 1853.</p> <p>GWYNNE.<br/>7th January 1853.</p> <p>LOVELY.<br/>8th January 1853.</p> <p>SMITH.<br/>8th January 1853.</p> <p>ABRAHAM.<br/>8th January 1853.</p> <p>KIBBLE.<br/>8th January 1853.</p> <p>HENDERSON.<br/>8th January 1853.</p> <p>JOHNSON.<br/>8th January 1853.</p> <p>PARKER.<br/>DICKS.<br/>8th January 1853.</p> <p>WALKER.<br/>8th January 1853.</p> <p>HIRON.<br/>10th January 1853.</p> <p>DUNCAN.<br/>10th January 1853.</p> <p>DEANE.<br/>10th January 1853.</p> | <p>48. GEORGE STEWART, of Enniskillen, in the County of Fermanagh, Ireland, Gentleman, for an invention for—"Improvements in railways, and in the propulsion of engines, carriages, and other vehicles thereon." <i>Letters Patent sealed.</i></p> <p>49. HERBERT GEORGE JAMES, of Leadenhall Street, in the City of London, Weighing-machine Manufacturer, for an invention for—"Improvements in the mode of securing and retaining corks and stoppers in bottles."—<i>A communication.</i><br/><i>Provisional protection only.</i></p> <p>50. RICHARD GITTINS, of 2, Thayer Street, Manchester Square, in the County of Middlesex, for an invention for—"Improvements in tills." <i>Letters Patent sealed.</i></p> <p>51. HEZEKIAH MARSHALL, of Canterbury, in the County of Kent, Architect, for an invention for—"Certain improvements in the transmission and the emission of air and sound." <i>Letters Patent sealed.</i></p> <p>52. JAMES EGLESON ANDERSON GWYNNE, of Essex Wharf, Strand, in the County of Middlesex, Engineer, for an invention for—"The propulsion and supporting of vessels, vehicles, and other bodies, on, through, and over the water."—<i>A communication.</i><br/><i>Provisional protection only.</i></p> <p>53. ROBERT LOVELY, of Adam Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in the application of steam to the propulsion of carriages on common roads, parts of which improvements are applicable to the construction of carriages for common roads." <i>Provisional protection only.</i></p> <p>54. THOMAS SMITH, of Lambeth, in the County of Surrey, Potter, for an invention for—"Certain improvements in soil pans." <i>Provisional protection only.</i></p> <p>55. JOHN ABRAHAM, of Birmingham, Machinist, for an invention for—"A new or improved method of manufacturing percussion-caps." <i>Letters Patent sealed.</i></p> <p>56. HENRY KIBBLE, of Guildford, in the County of Surrey, Gentleman, for an invention for—"Improvements in obtaining communication between guards, passengers, and drivers on railways." <i>Provisional protection only.</i></p> <p>57. WILLIAM HENDERSON, of Bow Common, in the County of Middlesex, Manufacturing Chemist, for an invention for—"Improvements in manufacturing sulphuric acid and copper from copper ores, reguluses, and matts." <i>Letters Patent sealed.</i></p> <p>58. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in stoves for cooking, and in apparatus connected therewith."—<i>A communication.</i><br/><i>Provisional protection only.</i></p> <p>59. FRANCIS PARKER, of the firm of William Parker and Sons, of Northampton, in the County of Northampton, Boot and Shoe Manufacturer, and WILLIAM DICKS, of Leicester, in the County of Leicester, Bootmaker, for an invention for—"Improvements in boots, shoes, and that kind of spatterdashes termed antigropelos." <i>Letters Patent sealed.</i></p> <p>60. RICHARD WALKER, of Birmingham, in the County of Warwick, Percussion-cap Manufacturer, for an invention for—"An improvement in the manufacture of buttons." <i>Letters Patent sealed.</i></p> <p>61. ANTOINE HIRON, of Broad Street, Golden Square, in the County of Middlesex, Sculptor, for an invention for—"Improvements in the means of copying or reproducing models or figures in marble, stone, ivory, or other substances." <i>Provisional protection only.</i></p> <p>62. CHARLES STEWART DUNCAN, of Charing Cross, in the County of Middlesex, Gentleman, for an invention for—"Certain improvements in rendering bottles, jars, and other like receptacles air and water tight, and for raising and measuring the liquid contents thereof." <i>Letters Patent sealed.</i></p> <p>63. JOHN DEANE, of Whitstable, in the County of Kent, Submarine Surveyor, for an invention for—"An improved construction of diving helmet." <i>Letters Patent sealed; no specification filed.</i></p> |
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| FITCH.<br>10th January 1853.                              | 64. MICHAEL FITCH, of Chelmsford, in the County of Essex, Patent Salt Manufacturer, for an invention for—"Improvements in ovens." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                       |
| WEBB.<br>10th January 1853.                               | 65. WILLIAM WEBB, of 5, Princes Street, Spitalfields, in the County of Middlesex, for an invention for—"Improvements in the manufacture of carpets." <i>Letters Patent sealed.</i>                                                                                                                                                                                                    |
| STIRLING.<br>10th January 1853.                           | 66. JOHN DAVIES MORRIES STIRLING, of the Larches Camp Hill, near Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of percussion-caps." <i>Letters Patent sealed.</i>                                                                                                                                                                       |
| SCHNEIDER.<br>10th January 1853.                          | 67. FREDERICK SCHNEIDER, of Berne, Switzerland, and of 16, Castle Street, Holborn, London, for an invention for—"A chair to be employed for preventing sea-sickness." <i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| NEWTON.<br>10th January 1853.                             | 68. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved mode of separating substances of different specific gravities."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                 |
| BEATTIE.<br>11th January 1853.                            | 69. JOSEPH BEATTIE, of Lawn Place, South Lambeth, in the County of Surrey, Engineer, for an invention for—"Certain improvements for economizing fuel in the generation and heating of steam." <i>Letters Patent sealed.</i>                                                                                                                                                           |
| WEILD.<br>11th January 1853.                              | 70. WILLIAM WEILD, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in looms for weaving." <i>Letters Patent sealed.</i>                                                                                                                                                                                                               |
| JENNINGS.<br>11th January 1853.                           | 71. HENRY CONSTANTINE JENNINGS, of Great Tower Street, in the City of London, Practical Chemist, for an invention for—"Improvements in separating the more fluid parts of fatty and oily matters." <i>Letters Patent sealed.</i>                                                                                                                                                      |
| THORNTON.<br>THORNTON.<br>THORNTON.<br>11th January 1853. | 72. JAMES THORNTON, of Derby, in the County of Derby, Mechanic, JOHN THORNTON, of Melbourne, in the said County, Mechanic, and ALBERT THORNTON, of the same place, Mechanic, for an invention for—"Improved nets, and other textile fabrics to be used for gloves and other purposes, and for the machinery to be employed in the manufacture thereof." <i>Letters Patent sealed.</i> |
| ATKINSON.<br>11th January 1853.                           | 73. JOSEPH ROBERT WILKIN ATKINSON, of Leeds, in the County of York, Flax-Spinner, for an invention for—"Improvements in machinery for preparing and spinning flax, tow, and other fibrous substances." <i>Letters Patent sealed.</i>                                                                                                                                                  |
| COTTRILL.<br>11th January 1853.                           | 74. THOMAS COTTRILL, of Westbromwich, in the County of Stafford, for an invention for—"Improvements in the manufacture of certain salts of soda." <i>Letters Patent sealed.</i>                                                                                                                                                                                                       |
| PETRIE.<br>TAYLOR.<br>11th January 1853.                  | 75. JOHN PETRIE, junior, of Rochdale, in the County of Lancaster, Ironmonger, and SAMUEL TAYLOR, of the same place, Mechanic, for an invention for—"Improvements in machinery or apparatus for washing or scouring wool." <i>Letters Patent sealed.</i>                                                                                                                               |
| HORROCKS.<br>12th January 1853.                           | 76. JOHN HORROCKS, of Seacombe, in the County of Chester, Accountant, for an invention for—"Improvements in indicating and registering the number of passengers conveyed in public carriages." <i>Provisional protection only.</i>                                                                                                                                                    |
| MCDOWALL.<br>12th January 1853.                           | 77. JOHN MCDOWALL, of Walkinshaw Foundry, Johnstone, in the County of Renfrew, North Britain, Engineer, for an invention for—"Improvements in cutting or reducing wood and other substances." <i>Letters Patent sealed.</i>                                                                                                                                                           |
| CARD.<br>12th January 1853.                               | 78. NATHANIEL CARD, of Manchester, in the County of Lancaster, Candle-wick Manufacturer, for an invention for—"Certain improvements in candle-wick." <i>Letters Patent sealed.</i>                                                                                                                                                                                                    |
| HICK.<br>12th January 1853.                               | 79. JOHN HICK, of Bolton-le-Moors, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in the method of lubricating revolving shafts and their bearings or pedestals." <i>Letters Patent sealed.</i>                                                                                                                                                     |
| FLETCHER.<br>12th January 1853.                           | 80. JAMES FLETCHER, of Facit, near Rochdale, in the County of Lancaster, Manager, for an invention for—"Certain improvements in machinery applicable to spinning, doubling, and winding of cotton, wool, flax, silk, and other fibrous materials." <i>Letters Patent sealed.</i>                                                                                                      |



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| NATION.<br>DYER.<br>12th January 1853.          | 81. WILLIAM BRYER NATION, of King's Norton, in the County of Worcester, Manufacturing Chemist, and JOSEPH DYER, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of soap."<br><i>Provisional protection only.</i>                                              |
| ARROWSMITH.<br>12th January 1853.               | 82. JOHN ARROWSMITH, of Bilston, in the County of Stafford, Engineer, for an invention for—"New or improved machinery for shaping metals."<br><i>Letters Patent sealed.</i>                                                                                                                                                                  |
| HUDDART.<br>12th January 1853.                  | 83. GEORGE AUGUSTUS HUDDART, of Brynkir, in the County of Caernarvon, Esquire, for an invention for—"Improvements in the manufacture of artificial leather."<br><i>Provisional protection only.</i>                                                                                                                                          |
| HUDDART.<br>12th January 1853.                  | 84. GEORGE AUGUSTUS HUDDART, of Brynkir, in the County of Caernarvon, Esquire, for an invention for—"Improvements applicable to steam generators."<br><i>Letters Patent sealed.</i>                                                                                                                                                          |
| NAIRNE.<br>12th January 1853.                   | 85. WILLIAM NAIRNE, of South Inch Mill, Perth, in the County of Perth, Flax-spinner, for an invention for—"Improvements in reeling yarns or threads."<br><i>Letters Patent sealed.</i>                                                                                                                                                       |
| HASLEWOOD.<br>12th January 1853.                | 86. EDWARD HASLEWOOD, of Tufnel Park, Holloway, in the County of Middlesex, for an invention for—"Improvements in fire-arms and projectiles."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                      |
| CAPPER.<br>WATSON.<br>12th January 1853.        | 87. JOHN CAPPER, of Manor House, Earls Court, Old Brompton, in the County of Middlesex, Merchant, and THOMAS JOHN WATSON, of No. 3, Devonshire Terrace, Fulham Road, in the same County, Operative Chymist, for an invention for—"Improvements in preparing and bleaching jute and other vegetable fibres."<br><i>Letters Patent sealed.</i> |
| LAWRENCE.<br>LAWRENCE.<br>12th January 1853.    | 88. FREDERICK LAWRENCE and ALFRED LAWRENCE, of the City Iron Works, Pitfield Street, Old Street Road, in the County of Middlesex, for an invention for—"Improvements in sluices and lock-gates."<br><i>Letters Patent sealed.</i>                                                                                                            |
| BENNETT.<br>CHARLESWORTH.<br>12th January 1853. | 89. JOHN BENNETT, of Bradley Mills, Huddersfield, in the County of York, Woollen Manufacturer, and HENRY CHARLESWORTH, of Huddersfield aforesaid, Card Manufacturer, for an invention for—"Improvements in doffing and preparing rovings of wool."<br><i>Letters Patent sealed.</i>                                                          |
| CARTWRIGHT.<br>13th January 1853.               | 90. MOSES CARTWRIGHT, of Longton, in the County of Stafford, Merchant, for an invention for—"An improvement or improvements in the preparation or manufacture of gypsum or plaster-of-Paris."<br><i>Letters Patent sealed.</i>                                                                                                               |
| BULLIVANT.<br>HACKNEY.<br>13th January 1853.    | 91. CHARLES BULLIVANT, of Birmingham, in the County of Warwick, Manufacturer, and CHARLES HACKNEY, of Balsall Heath, near Birmingham aforesaid, Mechanic, for an invention for—"An improvement or improvements in certain kinds of spoons and ladles."<br><i>Letters Patent sealed.</i>                                                      |
| BROWN.<br>13th January 1853.                    | 92. WILLIAM BROWN, of the City of Glasgow, Merchant, for an invention for—"An improved method of heating coal and bituminous substances, and for improvements in treatment of their volatile products."<br><i>Letters Patent sealed.</i>                                                                                                     |
| RUMLEY.<br>13th January 1853.                   | 93. JOHN RUMLEY, of South Shields, in the County of Durham, for an invention for—"Certain improvements in pumps."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                           |
| UREN.<br>13th January 1853.                     | 94. EDWARD WILLS UREN, of Walkhampton, in the County of Devonshire, for an invention for—"The manufacturing of bricks, pipes, tiles, imitation stone, and peat bricks for fuel, by the means of a machine and arrangements of machinery titled a central, circular, and horizontal motion."<br><i>Letters Patent sealed.</i>                 |
| FIFE.<br>13th January 1853.                     | 95. GEORGE FIFE, of the Town and County of Newcastle-upon-Tyne, Doctor of Medicine, for an invention for—"Improvements in protecting vessels and exposed surfaces from injury or decay."<br><i>Provisional protection only.</i>                                                                                                              |
| WILKINS.<br>13th January 1853.                  | 96. JOHN WALKER WILKINS, of Hampstead, in the County of Middlesex, Electric Telegraph Engineer, for an invention for—"Improvements in electric telegraphs, and in the instruments used in connection therewith."<br><i>Letters Patent sealed.</i>                                                                                            |



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| LILLIE.<br>14th January 1853.             | 97. JOSEPH LILLIE, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery to be used in the process of malting, drying, and seasoning grain, including certain vegetables and other substances."<br><i>Provisional protection only.</i>                                                                                        |
| TAYLOR.<br>SALT.<br>14th January 1853.    | 98. RICHARD TAYLOR and HEZEKIAH HENRY SALT, both of Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of spoons and ladles."<br><i>Provisional protection only.</i>                                                                                                                                                                |
| JAMES.<br>14th January 1853.              | 99. ARTHUR JAMES, of Redditch, in the County of Worcester, for an invention for—"Improvements in means for enclosing needles."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                              |
| VRIES.<br>14th January 1853.              | 100. JOHN HENRY VRIES, of Fleet Street, in the City of London, M.D., for an invention for—"Improvements in obtaining motive-power."<br><i>Provisional protection only.</i>                                                                                                                                                                                                   |
| STEADS.<br>14th January 1853.             | 101. WILLIAM STEADS, of Redcross Street, in the County of Leicester, for an invention for—"Improvements in blinds, maps, charts, and other articles wound on rollers."<br><i>Letters Patent sealed.</i>                                                                                                                                                                      |
| BRAMWELL.<br>BAGGS.<br>14th January 1853. | 102. FREDERICK JOSEPH BRAMWELL, of Millwall, Engineer, and ISHAM BAGGS, of Liverpool Street, Engineer, both in the County of Middlesex, for an invention for—"Improvements in steam-machinery used for driving piles, hammering, stamping, and crushing."<br><i>Letters Patent sealed.</i>                                                                                   |
| KINCAID.<br>15th January 1853.            | 103. JAMES STEWART KINCAID, of Dublin, Gentleman, for an invention for—"Improvements in ascertaining and registering the number of persons entering or quitting omnibuses or other vehicles or vessels, which improvements are applicable in whole or in part to buildings or other places."<br><i>Letters Patent sealed.</i>                                                |
| BAILEY.<br>15th January 1853.             | 104. WILLIAM BAILEY, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in the construction of certain parts of apparatus connected with railway signals, and in the mode or method of working the same."<br><i>Provisional protection only.</i>                                                                                        |
| TASKER.<br>15th January 1853.             | 105. EDWARD TASKER, of South Hackney, in the County of Middlesex, for an invention for—"The purposes of writing and drawing, called the 'Writing and Drawing Tube.'"<br><i>Letters Patent sealed.</i>                                                                                                                                                                        |
| VION.<br>15th January 1853.               | 106. HIPPOLYTE CHARLES VION, of Paris, in the Empire of France, and of 16, Castle Street, Holborn, London, Chemist, for an invention for—"Certain improvements in apparatus for refrigerating."<br><i>Letters Patent sealed.</i>                                                                                                                                             |
| YOUNG.<br>15th January 1853.              | 107. JAMES HADDON YOUNG, of College Street, Camden Town, in the County of Middlesex, for an invention for—"Improvements in brooms or brushing apparatus."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| HALKETT.<br>15th January 1853.            | 108. PETER ALEXANDER HALKETT, of Richmond Hill, in the County of Surrey, Lieutenant in the Royal Navy, for an invention for—"An improved construction of inkstand."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                 |
| ARROWSMITH.<br>15th January 1853.         | 109. JOHN ARROWSMITH, of Bilston, in the County of Stafford, Engineer, for an invention for—"Certain new or improved pumping-machinery."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                    |
| POTTS.<br>COCKINGS.<br>17th January 1853. | 110. THOMAS POTTS, Tube Manufacturer, and JAMES SEPTIMUS COCKINGS, Civil Engineer, both of Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of tubes, and in the application of tubes to certain purposes."<br><i>Letters Patent sealed.</i>                                                                                      |
| RYLEY.<br>EVANS.<br>17th January 1853.    | 111. THOMAS CROPPER RYLEY, of Haigh Foundry, near Wigan, in the County of Lancaster, Engineer, and EDWARD EVANS, of the same place, Engineer, for an invention for—"Certain improvements in the construction of wrought-iron wheels to be used upon railways or for other purposes, and in the machinery or apparatus connected therewith."<br><i>Letters Patent sealed.</i> |
| YORSTON.<br>17th January 1853.            | 112. ALEXANDER YORSTON, of Belfast, in the County of Antrim, Ireland, Engineer, for an invention for—"Improvements in the construction and arrangements of parts of railways."<br><i>Provisional protection only.</i>                                                                                                                                                        |
| NAIRNE.<br>17th January 1853.             | 113. WILLIAM NAIRNE, of South Inch Mill, Perth, in the County of Perth, Flax Spinner, for an invention for—"Improvements in power-looms."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                   |



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| <p>BELLFORD.<br/>17th January 1853.</p> <p>BELLFORD.<br/>17th January 1853.</p> <p>IGLESIA.<br/>17th January 1853.</p> <p>HENSON.<br/>HENSON.<br/>17th January 1853.</p> <p>BELLFORD.<br/>17th January 1853.</p> <p>BINKS.<br/>18th January 1853.</p> <p>MANIFOLD.<br/>LOWNDES.<br/>18th January 1853.</p> <p>BROWNING.<br/>18th January 1853.</p> <p>UNDERHAY.<br/>18th January 1853.</p> <p>REEVES.<br/>18th January 1853.</p> <p>NEWTON.<br/>18th January 1853.</p> <p>FAIRBAIRN.<br/>MATHERS.<br/>18th January 1853.</p> <p>LEES. LEES.<br/>LEES. LEES.<br/>18th January 1853.</p> <p>SHERINGHAM.<br/>18th January 1853.</p> <p>NEALE.<br/>18th January 1853.</p> <p>VINCENT.<br/>19th January 1853.</p> | <p>114. AUGUSTE EDOUARD LORADOUX BELLFORD, of the United Patent Offices, 16, Castle Street, Holborn, London, for an invention for—"Improvements in the manufacture of batting or wadding."—<i>A communication.</i> <i>Letters Patent sealed.</i></p> <p>115. AUGUSTE LORADOUX BELLFORD, of 16, Castle Street, Holborn, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the manufacture of blocks for printing music."—<i>A communication.</i> <i>Letters Patent sealed.</i></p> <p>116. ADOLPHE IGLESIA, of Upper John Street, Fitzroy Square, in the County of Middlesex, Mechanician, for an invention for—"Improvements applicable to machinery or apparatus for reeling or winding silk, cotton, or other fibrous substances, for the purpose of measuring or gauging the same."—<i>A communication.</i> <i>Provisional protection only.</i></p> <p>117. HENRY HENSON HENSON and WILLIAM FREDERICK HENSON, both of Hampstead, in the County of Middlesex, Civil Engineers, for an invention for—"Improvements in signalizing on railways, and in the apparatus used therein." <i>Letters Patent sealed; no specification filed.</i></p> <p>118. AUGUSTE EDOUARD LORADOUX BELLFORD, of the United Patent Offices, 16, Castle Street, Holborn, Middlesex, for an invention for—"An improved machine for obtaining motive-power."—<i>A communication.</i> <i>Provisional protection only.</i></p> <p>119. CHRISTOPHER BINKS, of Albert Villa, North Woolwich, in the County of Kent, for an invention for—"Improvements in producing electric light." <i>Provisional protection only.</i></p> <p>120. JOHN THORNBORROW MANIFOLD and CHARLES SPENCER LOWNDES, of Liverpool, in the County of Lancaster, Engineers, for an invention for—"Improvements in steam-engines." <i>Letters Patent sealed.</i></p> <p>121. HENRY BROWNING, of Bristol, in the County of Somerset, Painter, for an invention for—"Improvements in preparing compositions for coating iron and other ships' bottoms, and other surfaces." <i>Letters Patent sealed.</i></p> <p>122. FREDERICK GEORGE UNDERHAY, of Wells Street, Gray's Inn Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery for mowing or cutting corn and other crops." <i>Provisional protection only.</i></p> <p>123. ORLANDO REEVES, of the Castle, Taunton, in the County of Somerset, for an invention for—"Improvements in the manufacture of manure." <i>Letters Patent sealed.</i></p> <p>124. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved sewing machine."—<i>A communication.</i> <i>Letters Patent sealed.</i></p> <p>125. PETER FAIRBAIRN, of Leeds, in the County of York, Machinist, and SAMUEL RENNY MATHERS, of Leeds aforesaid, Flax Spinner, for an invention for—"Certain improvements in machinery for drawing the sliver and rove of flax, hemp, and tow." <i>Letters Patent sealed.</i></p> <p>126. THOMAS LEES, SQUIRE LEES, JOHN LEES, and THOMAS LEES, junior, all of Stockport, in the County of Chester, Engineers, for an invention for—"Improvements in apparatus for admitting water to boilers." <i>Provisional protection only.</i></p> <p>127. JOHN SHERINGHAM, of No. 24, Edwardes Square, Kensington, in the County of Middlesex, Gentleman, for an invention for—"Certain improvements in stove-grates." <i>Letters Patent sealed.</i></p> <p>128. ROBERT NEALE, of No. 49, Cumming Street, Pentonville, in the County of Middlesex, Engraver and Copper and other Plate Printer, for an invention for—"Improvements in the process of copper and other plate and cylinder printing and inking, and wiping and polishing by machinery the engraved plates and cylinders whilst used in the process." <i>Letters Patent sealed.</i></p> <p>129. WILLIAM VINCENT, of 195, Brick Lane, Spitalfields, in the County of Middlesex, of the firm of Noakes and Vincent, for an invention for—"Improvements in cocks or taps." <i>Letters Patent sealed.</i></p> |
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| SMIRKE.<br>19th January 1853.     | 130. SYDNEY SMIRKE, of 24, Berkeley Square, in the County of Middlesex, Esquire, for an invention for—"Improvements in apparatus for giving signals on railways."<br><i>Letters Patent sealed.</i>                                                                                                               |
| COOPER.<br>19th January 1853.     | 131. JOSEPH ROCK COOPER, of Birmingham, in the County of Warwick, Gun-maker, for an invention for—"Improvements in fire-arms."<br><i>Letters Patent sealed.</i>                                                                                                                                                  |
| SNOWDEN.<br>19th January 1853.    | 132. WILLIAM FRANCIS SNOWDEN, of King's Cross, in the County of Middlesex, Mechanist, for an invention for—"An improved mangle."<br><i>Provisional protection only.</i>                                                                                                                                          |
| NEWTON.<br>19th January 1853.     | 133. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in lamps or lanterns."<br><i>A communication. Provisional protection only.</i>                                                                          |
| JUDGE.<br>19th January 1853.      | 134. THOMAS JUDGE, of High Street, Hampstead, in the County of Middlesex, Watchmaker, for an invention for—"Improvements in propelling vessels."<br><i>Provisional protection only.</i>                                                                                                                          |
| MALO.<br>19th January 1853.       | 135. CELESTIN MALO, of the firm of Malo and Company, of Dunkerque, in the Empire of France, Ship Builders, for an invention for—"Improvements in steam generators."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                     |
| MAUDSLAY.<br>19th January 1853.   | 136. JOSEPH MAUDSLAY, of Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in steam-engines, which are also applicable, wholly or in part, to pumps and other motive-machines."<br><i>Letters Patent sealed; no specification filed.</i>                                            |
| CRABTREE.<br>20th January 1853.   | 137. JOHN CRABTREE, of Heywood, in the County of Lancaster, Cotton Spinner, for an invention for—"Improvements in machinery for winding and doubling yarns."<br><i>Letters Patent sealed.</i>                                                                                                                    |
| JACKSON.<br>20th January 1853.    | 138. PETER ROTHWELL JACKSON, of Salford, in the County of Lancaster, Engineer, for an invention for "Improvements in the manufacture of hoops and tyres for railway-wheels and other purposes."<br><i>Letters Patent sealed.</i>                                                                                 |
| WARD.<br>20th January 1853.       | 139. JOHN WHITELEY WARD, of Halifax, in the County of York, Stuff Manufacturer, for an invention for—"Improvements in the manufacture of woven or textile fabrics."<br><i>Provisional protection only.</i>                                                                                                       |
| WARD.<br>20th January 1853.       | 140. CORNELIUS WARD, Musical Instrument Maker, of 36, Great Titchfield Street, Mary-le-bone, in the County of Middlesex, for an invention for—"A new construction of the musical instrument designated the bassoon."<br><i>Letters Patent sealed.</i>                                                            |
| WARD.<br>20th January 1853.       | 141. CORNELIUS WARD, Musical Instrument Maker, 36, Great Titchfield Street Mary-le-bone, in the County of Middlesex, for an invention for—"Combining the musical instruments designated the drum and the cymbals in such manner as to make them as one instrument, which instrument he terms 'The Cymbal Drum.'" |
| DEELEY.<br>20th January 1853.     | 142. RICHARD MOUNTFORD DEELEY, of Audnam Bank, in the County of Stafford, Glass Manufacturer, for an invention for—"Improvements in the grates of furnaces used in the manufacture of glass."<br><i>Letters Patent sealed.</i>                                                                                   |
| MANARA.<br>20th January 1853.     | 143. HORACE DE MANARA, of Liverpool, in the County of Lancaster, for an invention for—"Certain apparatus and arrangements applicable to steamboats and other navigable vessels, for the purpose of preventing sea-sickness."<br><i>Provisional protection only.</i>                                              |
| RIDDLE.<br>20th January 1853.     | 144. WILLIAM RIDDLE, of East Temple Chambers, in the County of Middlesex, for an invention for—"Improvements in ornamenting walls, cielings, and other surfaces."<br><i>Letters Patent sealed.</i>                                                                                                               |
| GAZAGNAIRE.<br>20th January 1853. | 145. GEORGES EDOUARD GAZAGNAIRE, of Marseilles, in the Empire of France, and of 16, Castle Street, Holborn, in the City of London, for an invention for—"Improvements in the manufacture of nets for fishing and other purposes."<br><i>A communication. Complete specification; Letters Patent sealed.</i>      |
| BULLOCK.<br>20th January 1853.    | 146. AUGUSTUS THOMAS JOHN BULLOCK, Lieutenant Royal Navy, for an invention for—"Improvements in taps and cocks."<br><i>Letters Patent sealed.</i>                                                                                                                                                                |
| WILLIAMS.<br>20th January 1853.   | 147. WILLIAM WILLIAMS, of Eccleshall, in the County of Stafford, Engineer, for an invention for—"Improvements in refrigerating apparatus."<br><i>Letters Patent sealed.</i>                                                                                                                                      |



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| CARTER.<br>21st January 1853.           | 148. GEORGE CARTER, of Mottingham Lodge, Eltham, in the County of Kent, Gentleman, for an invention for—"Improvements in the construction of furnaces."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                      |
| EDWARDS.<br>21st January 1853.          | 149. ELIEZER EDWARDS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement in the construction of knobs, handles, and other articles of glass, earthenware, and other vitreous and semi-vitreous substances, and in attaching the same to doors, drawers, and other articles."<br><i>Provisional protection only.</i>                                                                                                                                                                  |
| ADDISON.<br>21st January 1853.          | 150. JOHN ADDISON, Captain in the service of the Honourable East India Company, of 3, Lawn Place, South Lambeth, London, for an invention for—"Keeping up a communication between the guards and engine-driver and between the guards and passengers by means of a lamp-signal, which answers both for a day and night signal for a railway-train."<br><i>Provisional protection only.</i>                                                                                                                                    |
| KNIPSEHAAR.<br>21st January 1853.       | 151. ABRAHAM ANTON MEIJSENHEIJM KNIPSEHAAR, of the Hague, in the Kingdom of Holland, an Officer in the General Accounts Office there, for an invention for—"An illuminated night-clock."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                     |
| THORNTON.<br>21st January 1853.         | 152. GEORGE THORNTON, of the Grange, Gargrave, in the County of York, Civil Engineer, for an invention for—"Certain improvements in propelling vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                     |
| MIDDLEMASS.<br>21st January 1853.       | 153. JAMES MIDDLEMASS, of Edinburgh, in the County of Mid Lothian, Scotland, Merchant and Outfitter, for an invention for—"The application of a new material to the construction of portable houses and other buildings."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                    |
| NEWTON.<br>21st January 1853.           | 154. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements applicable to clocks and other time-keepers, for the purpose of indicating not only the time of the day, but the day of the week, the month, and the year; which invention he intends to denominate 'Hawes's Calendar Clock or Time-piece.'"<br><i>A communication. Letters Patent sealed.</i>                                                                       |
| TAYLOR.<br>21st January 1853.           | 155. WILLIAM TAYLOR, of How Wood, in the County of Renfrew, North Britain, Coal Merchant, for an invention for—"Improvements in the production and application of heated air."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                         |
| ANDREW.<br>21st January 1853.           | 156. MATTHEW ANDREW, of Hyde, in the County of Chester, Clerk, for an invention for—"Certain improvements in fastenings for windows."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                        |
| PRINCE.<br>21st January 1853.           | 157. ALEXANDER PRINCE, of the Office for Patents, No. 4, Trafalgar Square, Charing Cross, for an invention for—"Improvements in the manufacture of articles of furniture and other articles of a useful and ornamental character, by the use and application of a certain vegetable production belonging to the family of the cactus-plant, and in the mode of treating and preparing such vegetable production so as to render it available for the above purposes."<br><i>A communication. Provisional protection only.</i> |
| CURTIS.<br>21st January 1853.           | 158. WILLIAM JOSEPH CURTIS, of 23, Birchin Lane, in the city of London, in the County of Middlesex, Civil Engineer, for an invention for—"Excavating or digging earth, and for carrying or delivering the soil."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                             |
| PLANT.<br>21st January 1853.            | 159. REUBEN PLANT, of Brierly Hill, Staffordshire, for an invention for—"Improvements in the construction of glass-house furnaces."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                          |
| CHUBB.<br>GOATER.<br>21st January 1853. | 160. JOHN CHUBB, of St. Paul's Churchyard, Patent Lock Manufacturer, and JOHN GOATER, Lock Maker, in the employ of the said John Chubb, for an invention for—"Improvements in locks and latches."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                            |
| MALEGUE.<br>22nd January 1853.          | 161. LOUIS JULES JOSEPH MALEGUE, Dyer, of Paris, in the French Empire, for an invention for—"A certain colouring composition for dyeing tissues or stuffs of silk and cotton."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                               |
| QUINTON.<br>22nd January 1853.          | 162. BENJAMIN QUINTON, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved fastening for brooches and other articles of jewellery and dress."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                     |



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| MYERS.<br>22nd January 1853.                      | 163. JOHN POWELL MATTHEW MYERS, of Tenby, in the County of Pembroke, Gentleman, for an invention for—"Improvements in the manufacture of artificial fuel."<br><i>Provisional protection only.</i>                                                                                                                                              |
| SHARPLES.<br>22nd January 1853.                   | 164. WILLIAM SHARPLES, of the Star Hotel, Bolton, in the County of Lancaster, for an invention for—"Improvements applicable to apparatus used for marking or scoring at billiards and other games."<br><i>Provisional protection only.</i>                                                                                                     |
| STEEVENS.<br>22nd January 1853.                   | 165. WILLIAM DANIEL STEEVENS, of Hart Street, Covent Garden, in the County of Middlesex, for an invention for—"An improved mode of signaling or conveying alarm and other signals between one part and another of a train of railway-carriages."<br><i>Provisional protection only.</i>                                                        |
| FIFE.<br>22nd January 1853.                       | 166. GEORGE FIFE, of the Town and County of the Town of Newcastle-upon-Tyne, Doctor of Medicine, for an invention for—"Improvements in safety-lamps, which improvements, or parts thereof, are applicable to other lamps."<br><i>Provisional protection only.</i>                                                                              |
| MEDWORTH.<br>LEE.<br>22nd January 1853.           | 167. JOHN MEDWORTH, of 9, Claremont Cottages, Camden Hill, Kensington, and LAWRENCE LEE, of 498, New Oxford Street, both in the County of Middlesex, for an invention for—"Improvements in lithographic presses."<br><i>Letters Patent sealed.</i>                                                                                             |
| PAUL.<br>22nd January 1853.                       | 168. JOSEPH PAUL, of 7, Prairie, Lowestoft, in the County of Suffolk, for an invention for—"Improvements in machinery for making drains in land."<br><i>Provisional protection only.</i>                                                                                                                                                       |
| DESIGNES.<br>KUKLA.<br>22nd January 1853.         | 169. PETER HUBERT DESVIGNES, of Lewisham, in the County of Kent, and FRANCIS XAVIER KUKLA, of the same place, for an invention for—"Improvements in galvanic batteries."<br><i>Letters Patent sealed.</i>                                                                                                                                      |
| CALLEN.<br>RIPLEY.<br>22nd January 1853.          | 170. ARTHUR WELLINGTON CALLEN, of Peckham, in the County of Surrey, Gentleman, and ABRAHAM RIPLEY, of Westminster Road, in the County of Surrey, Engineer, for an invention for—"An improvement in the modes of giving and transmitting multiplying rotative motion to shafts and other revolving bodies."<br><i>Letters Patent sealed.</i>    |
| BRINSMEAD.<br>24th January 1853.                  | 171. HENRY BRINSMEAD, of the parish of Saint Giles-in-the-Wood, in the County of Devon, Machine Maker, for an invention for—"Reaping all kinds of corn."<br><i>Letters Patent sealed.</i>                                                                                                                                                      |
| HOLDEN.<br>BULL.<br>KNIGHT.<br>24th January 1853. | 172. HOWARD ASHTON HOLDEN, of Birmingham, in the County of Warwick, Manufacturer, EDWARD BULL, of Birmingham aforesaid, Agent, and ALFRED KNIGHT, of Birmingham aforesaid, Machinist, for an invention for—"A new or improved method of communicating between the guard and driver of a railway-train."<br><i>Provisional protection only.</i> |
| PERREYON.<br>24th January 1853.                   | 173. BENOIT PERREYON, of 39, Rue de l'Echiquier, Paris, France, and of 4, South Street, Finsbury, London, Tailor, for an invention for—"A new mode of fastening buttons to garments, and an improved button; and also in machinery for manufacturing the same."<br><i>Provisional protection only.</i>                                         |
| KNAB.<br>24th January 1853.                       | 174. DAVID CLOVIS KNAB, Operative Chymist, of Rue Rossini, Paris, France, and of 4, South Street, Finsbury, London, for an invention for—"Improvements in the process of and apparatus for distilling certain vegetable and mineral matters, and also animal bones and flesh."<br><i>Letters Patent sealed.</i>                                |
| BEATSON.<br>24th January 1853.                    | 175. DONALD BEATSON, of Mile End, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the means of propelling ships and other floating vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                     |
| NAIRNE.<br>24th January 1853.                     | 176. WILLIAM NAIRNE, of South Inch Mill, Perth, in the County of Perth, Flax-spinner, for an invention for—"Improvements in dressing yarns for looms."<br><i>Letters Patent sealed.</i>                                                                                                                                                        |
| RANDOLPH.<br>ELDER.<br>24th January 1853.         | 177. CHARLES RANDOLPH and JOHN ELDER, both of Glasgow, in the County of Lanark, Engineers, Partners of the firm of Randolph, Elder, & Company, of that place, for an invention for—"Improvements in propelling vessels."<br><i>Letters Patent sealed.</i>                                                                                      |



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| KENDALL.<br>24th January 1853.              | 178. WILLIAM KENDALL, of Blawith, near Ulverston, in the County of Lancaster, Wood-turner, for an invention for—"Improvements in the manufacture of boxes and similar articles, and in the machinery or apparatus to be employed therein."<br><i>Letters Patent sealed.</i>                                                                 |
| JOHNSON.<br>24th January 1853.              | 179. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in aerial navigation, and in the machinery or apparatus connected therewith."<br>—A communication.<br><i>Letters Patent sealed.</i>                                          |
| STEVENSON.<br>24th January 1853.            | 180. JOHN STEVENSON, of Dungannon, County Tyrone, Spinner, for an invention for—"Improvements in machinery for spinning flax and tow."<br><i>Letters Patent sealed.</i>                                                                                                                                                                     |
| BRAE.<br>24th January 1853.                 | 181. ANDREW EDMUND BRAE, of Leeds, in the County of York, for an invention for—"A method of communicating signals from one part of a railway train to another."<br><i>Letters Patent sealed.</i>                                                                                                                                            |
| SHATTUCK.<br>25th January 1853.             | 182. WARREN FISK SHATTUCK, of 373, Strand, in the County of Middlesex, Engineer, for an invention for—"A smut-machine."<br>—A communication from Leonard Smith, of Troy, in the County of Rensselaer, in the State of New York, in the United States of America.<br><i>Complete specification; Letters Patent sealed.</i>                   |
| RÉMOND.<br>25th January 1853.               | 183. AMÉDÉE FRANÇOIS RÉMOND, of Birmingham, in the County of Warwick, Gentleman, for an invention for—"A method of ornamenting articles of glass, enamel, and earthenware."<br>—A communication.<br><i>Provisional protection only.</i>                                                                                                     |
| OVANS.<br>25th January 1853.                | 184. THOMAS OVANS, of the City of Dublin, Shopman, for an invention for—"Improvements in the manufacture of boots."<br><i>Complete specification; protection for SIX months only.</i>                                                                                                                                                       |
| HENLEY.<br>25th January 1853.               | 185. WILLIAM THOMAS HENLEY, of St. John Street Road, London, Electrical Engineer, for an invention for—"Improvements in covering, laying, and uniting wires and ropes for telegraphic purposes, and in the machinery employed therein."<br><i>Letters Patent sealed.</i>                                                                    |
| ROE.<br>25th January 1853.                  | 186. FREEMAN ROE, of the Strand, in the County of Middlesex, for an invention for—"Improvements in paving roads and streets."<br><i>Provisional protection only.</i>                                                                                                                                                                        |
| SIMPSON.<br>25th January 1853.              | 187. FREDERICK SIMPSON, of Red Hill, in the County of Surrey, Cement Merchant, for an invention for—"Improvements in combining materials for cleansing or whitening stone."<br><i>Letters Patent sealed.</i>                                                                                                                                |
| SANGSTER.<br>25th January 1853.             | 188. JOHN SANGSTER, of Cheapside, in the City of London, for an invention for—"Improvements in umbrellas and parasols."<br>—A communication.<br><i>Letters Patent sealed.</i>                                                                                                                                                               |
| NEWTON.<br>25th January 1853.               | 189. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the manufacture of printing surfaces."<br>—A communication.<br><i>Letters Patent sealed.</i>                                                                            |
| WIGGINS.<br>25th January 1853.              | 190. JOSEPH WIGGINS, of Horner Street, Lambeth, in the County of Surrey, Experimental Chemist, for an invention for—"An improved cement for resisting moisture and damp."<br><i>Provisional protection only.</i>                                                                                                                            |
| SIEVIER.<br>WAITHMAN.<br>25th January 1853. | 191. ROBERT WILLIAM SIEVIER, of Upper Holloway, in the County of Middlesex, Gentleman, and ROBERT WILLIAM WAITHMAN, of High Bentham, in the West Riding of the County of York, Gentleman, for an invention for—"Improvements in bleaching animal and vegetable fibrous materials."<br><i>Letters Patent sealed; no specification filed.</i> |
| PRICE.<br>25th January 1853.                | 192. HENRY HABBERLEY PRICE, of Neath Abbey, in the County of Glamorgan, Civil Engineer, for an invention for—"Improvements in raising and forcing water and other fluids."<br><i>Provisional protection only.</i>                                                                                                                           |
| MAYALL.<br>25th January 1853.               | 193. JOHN EDWIN MAYALL, of Regent Street, in the County of Middlesex, Photographer, for an invention for—"Improvements in the production of crayon effects by the daguerreotype and photographic processes."<br><i>Letters Patent sealed.</i>                                                                                               |
| DAVIS.<br>26th January 1853.                | 194. THEODORE DWIGHT DAVIS, of 16, Castle Street, Holborn, in the County of Middlesex, for an invention for—"An improved valve for steam and gas engines."<br><i>Provisional protection only.</i>                                                                                                                                           |

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| DAVIS.<br>26th January 1853.                 | 195. ISAAC DAVIS, of 119, High Holborn, in the County of Middlesex, Optician, for an invention for—"Improvements in optical and mathematical instruments."<br><i>Letters Patent sealed.</i>                                                                                                                           |
| CAZALAT.<br>26th January 1853.               | 196. ANTOINE GALY CAZALAT, of No. 58, Rue Charlot, Paris, France, and of 4, South Street, Finsbury, London, Civil Engineer, for an invention for—"A new barometer and steam-gauge."<br><i>Provisional protection only.</i>                                                                                            |
| ADOR.<br>26th January 1853.                  | 197. NICOLAS FRANCISQUE ADOR, of 16, Castle Street, Holborn, in the County of Middlesex, for an invention for—"Improvements in preparing plastic materials to be used in the manufacture of fired wares, and for other purposes."<br><i>Letters Patent sealed.</i>                                                    |
| CASHIN.<br>STIRK.<br>26th January 1853.      | 198. THOMAS FREDERICK CASHIN and JOSEPH STIRK, of Sheffield, in the County of York, for an invention for—"A grinding machine."<br><i>Provisional protection only.</i>                                                                                                                                                 |
| NOLET.<br>26th January 1853.                 | 199. CHARLES NOLET, of Ghent, in the Kingdom of Belgium, Watchmaker, for an invention for—"Improvements in indicating time."<br><i>Provisional protection only.</i>                                                                                                                                                   |
| JOHNSON.<br>26th January 1853.               | 200. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the method of lubricating machinery, and in the mechanism or apparatus employed therein."— <i>A communication.</i><br><i>Letters Patent sealed.</i> |
| COMBE.<br>26th January 1853.                 | 201. JAMES COMBE, of Belfast, in the Kingdom of Ireland, Machine-maker, for an invention for—"Improvements in machinery for hackling or combing flax and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                                                  |
| MOORE.<br>26th January 1853.                 | 202. WILLIAM HENRY MOORE, of Wenlock Place, Shepherdess Walk, City Road, in the County of Middlesex, Cheesemonger, for an invention for—"Improvements applicable to the construction of temporary dwellings."<br><i>Provisional protection only.</i>                                                                  |
| ALABASTER.<br>27th January 1853.             | 203. CHARLES HENRY ALABASTER, of Bethnal Green, in the County of Middlesex, Hat-maker, for an invention for—"Improvements in ploughs."<br><i>Provisional protection only.</i>                                                                                                                                         |
| STURDEE.<br>27th January 1853.               | 204. ALFRED BARNES STURDEE, of No. 5, Samuel Street, Woolwich, in the County of Kent, Naval Architect, for an invention for—"A twin-stern ship or vessel, with a protected propeller."<br><i>Provisional protection only.</i>                                                                                         |
| BROWN.<br>27th January 1853.                 | 205. EDWARD BROWN, Manufacturer, Henry Street Works, Sheffield, in the County of York, for an invention for—"Improvements in the blades of table-knives."<br><i>Provisional protection only.</i>                                                                                                                      |
| MURDOCH.<br>27th January 1853.               | 206. JAMES MURDOCH, of 7, Staple Inn, in the County of Middlesex, Patent Agent, for an invention for—"An improvement in stamping or shaping metals."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                  |
| BIVEN.<br>27th January 1853.                 | 207. EDWARD JONES BIVEN, of Alfred Terrace, Queen's Road, Bayswater, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the means of communicating signals on railways, and for other purposes."<br><i>Provisional protection only.</i>                                                |
| GALLOWAY.<br>GALLOWAY.<br>27th January 1853. | 208. WILLIAM GALLOWAY and JOHN GALLOWAY, of Manchester, in the County of Lancaster, Engineers, for an invention for—"Improvements in steam-engines and boilers."<br><i>Letters Patent sealed.</i>                                                                                                                     |
| NOËL.<br>28th January 1853.                  | 209. CASIMIR NOËL, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"A new regulating bit."<br><i>Complete specification: Letters Patent sealed.</i>                                                                                                         |
| SHAW.<br>28th January 1853.                  | 210. ROBERT SHAW, of Portlaw, in the County of Waterford, in Ireland, Cotton-spinner and Manufacturer, for an invention for—"Starting, stopping, and reversing steam-engines."<br><i>Letters Patent sealed.</i>                                                                                                       |
| LEARMONT.<br>28th January 1853.              | 211. JAMES LEARMONT, of Porthopetoun Foundry, Edinburgh, Scotland, for an invention for—"Certain improvements in marine pumps and apparatus connected therewith."<br><i>Provisional protection only.</i>                                                                                                              |
| TRANTER.<br>28th January 1853.               | 212. WILLIAM TRANTER, of Birmingham, in the County of Warwick, Gun-maker, for an invention for—"Certain improvements in fire-arms."<br><i>Letters Patent sealed.</i>                                                                                                                                                  |



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| LUCAS.<br>28th January 1853.                  | 213. ALFRED LUCAS, of St. George's, Middlesex, for an invention for—"An improved inkstand."<br><i>Provisional protection only.</i>                                                                                                                                                                                                      |
| KOEFFLER.<br>28th January 1853.               | 214. LOUIS CHRISTIAN KOEFFLER, of Rochdale, in the County of Lancaster, Bleacher and Dyer, for an invention for—"Improvements in bleaching and dyeing."<br><i>Letters Patent sealed.</i>                                                                                                                                                |
| SCOTT.<br>28th January 1853.                  | 215. JOSEPH SCOTT, of Glasgow, in the County of Lanark, North Britain, Glass Manufacturer, for an invention for—"Improvements in closing or stoppering bottles, jars, and other receptacles."<br><i>Letters Patent sealed.</i>                                                                                                          |
| DONISTHORPE.<br>CROFTS.<br>28th January 1853. | 216. GEORGE EDMOND DONISTHORPE and JOHN CROFTS, of Leeds, in the County of York, for an invention for—"Improvements in combing wool, hair, or other fibrous materials."<br><i>Letters Patent sealed.</i>                                                                                                                                |
| KINGSTON.<br>28th January 1853.               | 217. JAMES POLE KINGSTON, of 5, Lewisham Road, in the County of Kent, for an invention for—"Improvements in combining metals for the bearings and packings of machinery."<br><i>Letters Patent sealed.</i>                                                                                                                              |
| PRIDEAUX.<br>28th January 1853.               | 218. THOMAS SYMES PRIDEAUX, of Garden Road, St. John's Wood, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of iron."<br><i>Letters Patent sealed.</i>                                                                                                                                    |
| RUSSELL.<br>28th January 1853.                | 219. JOHN SCOTT RUSSELL, of Great George Street, Westminster, in the County of Middlesex, for an invention for—"Improvements in constructing ships and vessels propelled by screw or such like propeller."<br><i>Letters Patent sealed.</i>                                                                                             |
| SPEED.<br>28th January 1853.                  | 220. ROWLAND SPEED, of Wandsworth, in the County of Surrey, Butcher, for an invention for—"Improvements in communicating between the guard and driver of a railway-train, and in the apparatus employed therein."<br><i>Provisional protection only.</i>                                                                                |
| BROOMAN.<br>28th January 1853.                | 221. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in cables."<br><i>A communication. Letters Patent sealed.</i>                                                                                            |
| AVINS.<br>TARPLEE.<br>29th January 1853.      | 222. HENRY AVINS, of Birmingham, in the County of Warwick, Timber Merchant and Sawyer, and GEORGE TARPLEE, of Birmingham aforesaid, Clerk of Works, for an invention for—"A new or improved brick."<br><i>Letters Patent sealed.</i>                                                                                                    |
| POTTER.<br>29th January 1853.                 | 223. HAROLD POTTER, of Darwen, in the County of Lancaster, Carpet Manufacturer, for an invention for—"Improvements in the mode or method of producing a certain colour or colours on woven or textile fabrics and yarns, and in the machinery or apparatus connected therein."<br><i>Letters Patent sealed.</i>                         |
| STANDISH.<br>29th January 1853.               | 224. JOHN STANDISH, of Bolton, in the County of Lancaster, Machine-maker, for an invention for—"Improvements in machinery or apparatus used in the preparation of cotton, wool, flax, or other fibrous materials to be spun."<br><i>Letters Patent sealed.</i>                                                                          |
| ARCHER.<br>29th January 1853.                 | 225. WILLIAM ARCHER, of Hampton Court, in the County of Middlesex, Gentleman, for an invention for—"An improved mode or modes of preventing accidents by improved signals on railways, parts of which improvements are applicable to blast-furnaces."<br><i>Letters Patent sealed.</i>                                                  |
| MOORHOUSE.<br>29th January 1853.              | 226. HENRY MOORHOUSE, of Denton, in the County of Lancaster, Tailor, for an invention for—"Improvements in the mode or method of preparing cotton, wool, flax, or other fibrous materials, and in the machinery or apparatus employed therein."<br><i>Letters Patent sealed.</i>                                                        |
| MACKRORY.<br>29th January 1853.               | 227. FRANCIS MACKRORY, of No. 4, Milton Terrace, Vauxhall Bridge Road, Pimlico, London, Westminster, for an invention for—"To prevent all dust, blacks, and spray entering the windows, also a preventive from noise caused by winds, called the 'Pulveris depulsor, or newly invented window.'"<br><i>Provisional protection only.</i> |
| WILSON.<br>29th January 1853.                 | 228. THOMAS HOOD WILSON, of the Parish of Twickenham, in Middlesex, for an invention for—"Securing carriage-gates, doors, shutters, and sash-casements."<br><i>Provisional protection only.</i>                                                                                                                                         |
| WHISHAW.<br>29th January 1853.                | 229. FRANCIS WHISHAW, of No. 9, John Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"An improved lock or system of locks."<br><i>Letters Patent sealed.</i>                                                                                                                                          |



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| CORRY.<br>CORRY.<br>29th January 1853.     | 230. JOHN RYALL CORRY and JAMES BARRETT CORRY, leather-dressers, of Queen Camel, in the County of Somerset, for an invention for—"A new and improved method of dressing lamb-skin leather and cleaning the wool therefrom."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                     |
| BROOMAN.<br>29th January 1853.             | 231. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in diving-bells and apparatus to be used in connection therewith."<br>— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                     |
| ARCHIBALD.<br>29th January 1853.           | 232. CHARLES DICKSON ARCHIBALD, of Portland Place, in the County of Middlesex, Esquire, for an invention for—"An improved goniometric protractor, or instrument for setting out and measuring angles and other geometric figures."— <i>A communication from Charles Gordon, of Washington, United States.</i><br><i>Provisional protection NOT granted.</i>                                                                                      |
| SPRING.<br>29th January 1853.              | 233. MARCUS SPRING, of 25, Church Row, Hampstead, in the County of Middlesex, for an invention for—"Improvements in apparatus for separating gold from matter mixed or combined therewith."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                                                                               |
| HEWITSON.<br>29th January 1853.            | 234. WILLIAM WATSON HEWITSON, of Springfield Mount, Leeds, in the County of York, for an invention for—"Improvements in suspending or applying mariners' compasses in vessels built of iron or partly of iron." <i>Letters Patent sealed.</i>                                                                                                                                                                                                    |
| BACHELOR.<br>29th January 1853.            | 235. HENRY BACHELOR, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in combining metal plates for ship-building and other engineering constructions." <i>Provisional protection only.</i>                                                                                                                                                                                                      |
| SHAND.<br>29th January 1853.               | 236. JAMES SHAND, of 245, Blackfriars Road, in the County of Surrey, Fire-Engine Manufacturer, for an invention for—"Improvements in ships' fire-engines." <i>Provisional protection only.</i>                                                                                                                                                                                                                                                   |
| ROGERSON.<br>29th January 1853.            | 237. SAMUEL ROGERSON, of Manchester, in the County of Lancaster, Braid Manufacturer, for an invention for—"Certain improvements in the manufacture of braid, and in the machinery or apparatus connected therewith." <i>Provisional protection only.</i>                                                                                                                                                                                         |
| JENNINGS.<br>29th January 1853.            | 238. LEWIS JENNINGS, of Fludyer Street, in the City of Westminster, Mechanical Engineer, for an invention for—"An improved construction of lock." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                  |
| CONSTABLE.<br>29th January 1853.           | 239. WILLIAM CONSTABLE, of the Photographic Institution, Brighton, in the County of Sussex, for an invention for—"Improvements in transmitting motive-power to machinery, and in regulating the action of rotary machines." <i>Letters Patent sealed.</i>                                                                                                                                                                                        |
| NEWTON.<br>29th January 1853.              | 240. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery for dressing cloth."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                                                                                |
| LAVANCHY.<br>29th January 1853.            | 241. JEAN BAPTISTE LAVANCHY, of Tannige, in the Kingdom of Savoy, Machinist, for an invention for—"Improvements in the construction of collapsable framework of wood or iron, which may be employed for forming portable bedsteads, houses, parts of houses or bridges, and other similar structures, which may occasionally be required to be removed from place to place, with facility, economy, and despatch." <i>Letters Patent sealed.</i> |
| TWIGG.<br>SILVESTER.<br>29th January 1853. | 242. GEORGE TWIGG and ARTHUR LUCAS SILVESTER, of Birmingham, in the County of Warwick, Manufacturers, for an invention for—"Improvements in apparatus for cutting and affixing stamps and labels."— <i>Partly a communication.</i><br><i>Complete specification; Letters Patent sealed.</i>                                                                                                                                                      |
| BROWN.<br>31st January 1853.               | 243. DAVID STEPHENS BROWN, of No. 2, Alexandrian Lodge, Old Kent Road, in the County of Surry, Gentleman, for an invention for—"Certain improvements in barometers, part of which invention is applicable to the registry of other fluctuations than those of barometers." <i>Letters Patent sealed.</i>                                                                                                                                         |
| KNOX.<br>31st January 1853.                | 244. THOMAS KNOX, of Birmingham, in the County of Warwick, Boot and Shoe Maker, for an invention for—"A new or improved rotatory heel for boots and shoes." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                        |



CAULFEILD.  
31st January 1853.

245. CHARLES CAULFEILD, Rector of Creagh, Skibbereen, for an invention for—"Propelling vessels through the water by means of tubular propellers, consisting of a tube or tubes, containing each a piston moved by steam or any other motive-power."

*Provisional protection only.*

COWPER.  
31st January 1853.

246. CHARLES COWPER, of 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Certain improvements in preserving butter and other substances."—*A communication from Jean François Nicolas Bréon, Paris, in France.*

*Provisional protection only.*

PERKES.  
31st January 1853.

247. SAMUEL PERKES, Civil Engineer, 1, Walbrook, City, London, for an invention for—"Improvements in the mode of constructing certain works applicable to aqueducts, viaducts, railways, canals, rivers, docks, harbours, lighthouses, breakwaters, reservoirs, tunnels, sea-walls, embankments, submarine foundations, and other useful purposes."

*Letters Patent sealed.*

PALMER.  
31st January 1853.

248. RICHARD PALMER, of Bideford, in the County of Devon, Whitesmith, for—"An invention which may be used for cutting turnips, mangold-wurzel, carrots, and other roots, or for bruising them only or reducing them to a pulp, and for mixing them with meal, as may be required, and also for grinding or crushing apples for cider."

*Letters Patent sealed.*

JONES.  
31st January 1853.

249. THOMAS MORETON JONES, of No. 42, Southampton Buildings, Holborn, in the County of Middlesex, Attorney-at-Law, for an invention for—"Checking or stopping railway-trains of carriages, and steadying the carriages when in motion, and preventing jerking and collision of the carriages."

*Provisional protection only.*

WILLIAMS.  
31st January 1853.

250. WALTER WILLIAMS, junr, of West Bromwich, in the County of Stafford, Iron Master, for an invention for—"Improvements in machinery for cutting or shearing iron and other metals."

*Complete specification ; Letters Patent sealed.*

PERREAUX.  
31st January 1853.

251. LOUIS GUILLAUME PERREAUX, of Paris, in the Empire of France, Engineer, for an invention for—"Improvements in machinery or apparatus for testing and ascertaining the strength of yarn, thread, wire, strings, or fabrics."

*Letters Patent sealed.*

PUGH.  
31st January 1853.

252. EDWIN PUGH, of Whitstable, in the County of Kent, Draper, for an invention for—"Improvements in the means of ballasting ships or vessels, and in rendering them buoyant under certain circumstances."

*Letters Patent sealed.*

MASON.  
31st January 1853.

253. JOHN MASON, of Rochdale, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in looms for weaving."

*Letters Patent sealed.*

LIGHTFOOT.  
31st January 1853.

254. THOMAS LIGHTFOOT, of Accrington, in the County of Lancaster, for an invention for—"Improvements in glazes for pottery or other similar materials."

*Letters Patent sealed.*

LEACH.  
31st January 1853.

255. EDMUND LEACH, of Rochdale, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in the mode or method of preparing and spinning cotton, wool, flax, and other fibrous substances, and in the machinery or apparatus employed therein."

*Letters Patent sealed.*

CHALMERS.  
31st January 1853.

256. DAVID CHALMERS, of Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in looms."

*Letters Patent sealed.*

MAGOON.  
31st January 1853.

257. ISRAEL P. MAGOON, of the State of Vermont, in the United States of America, for an invention for—"A new and useful improvement in steam-boiler chimneys."

*Letters Patent sealed.*

LAWRENCE.  
DAVISON.  
LAWRENCE.  
31st January 1853.

258. FREDERICK LAWRENCE, of the City Iron Works, Pitfield Street, in the County of Middlesex; WILLIAM DAVISON, of Halstead, in the County of Essex; and ALFRED LAWRENCE, of the City Iron Works, Pitfield Street, in the County of Middlesex, for an invention for—"Improvements in engines to be worked by steam or other fluid."

*Letters Patent sealed.*

PIZZIE.  
31st January 1853.

259. WILLIAM PIZZIE, of Albourn, in the County of Wilts, for an invention for—"A railway-carriage break."

*Letters Patent sealed.*

TARIN.  
31st January 1853.

260. MARC LOUIS ADAM TARIN, of Mount Street, Grosvenor Square, in the County of Middlesex, for an invention for—"An improved dust-pan."

*Letters Patent sealed.*

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| TARIN.<br>31st January 1853.                              | 261. MARC LOUIS ADAM TARIN, of Mount Street, Grosvenor Square, in the County of Middlesex, for an invention for—"Improvements in reflectors for diffusing light."<br><i>Letters Patent sealed.</i>                                                                                                                           |
| COMINS.<br>31st January 1853.                             | 262. JAMES COMINS, of South Molton, in the County of Devon, Agricultural Implement Maker, for an invention for—"A clod-crusher, land-presser, or pulverizer."<br><i>Letters Patent sealed.</i>                                                                                                                               |
| BOREHAM.<br>31st January 1853.                            | 263. SAMUEL BOREHAM, of Henry Street, Pentonville, in the County of Middlesex, Watch and Clock Maker, for an invention for—"Certain improvements in time-keepers."<br><i>Provisional protection only.</i>                                                                                                                    |
| CATTANACH.<br>31st January 1853.                          | 264. CHARLES CATTANACH, of Aberdeen, Scotland, for an invention for—"Certain apparatus for measuring the human figure, and transferring the said measurement to cloth."<br><i>Letters Patent sealed.</i>                                                                                                                     |
| PINKERTON.<br>31st January 1853.                          | 265. JOHN PINKERTON, of High Street, Borough, in the County of Surrey, for an invention for—"A new mode of applying and combining ornamented glass in the manufacture of useful and ornamental articles."<br><i>Letters Patent sealed.</i>                                                                                   |
| STRETTON.<br>31st January 1853.                           | 266. GEORGE STRETTON, of Paddington, in the County of Middlesex, Gentleman, for an invention for—"A certain improvement in soap, thereby denominated 'Amylon or starch soap.'"<br><i>Provisional protection only.</i>                                                                                                        |
| HADLEY.<br>31st January 1853.                             | 267. CHARLES HADLEY, of Lower Hurst Street, Birmingham, for an invention for—"Improvements in the construction and formation of granite and stone pavements, and surfaces for carriage and railways."<br><i>Letters Patent sealed.</i>                                                                                       |
| CLARKSON.<br>31st January 1853.                           | 268. THOMAS CHARLES CLARKSON, of Wapping, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in the manufacture of hats, caps, and bonnets, which improvements are also applicable to other articles of wearing-apparel."<br><i>Complete specification ; protection for SIX months only.</i>       |
| EDWARDS.<br>1st February 1853.                            | 269. ELIEZER EDWARDS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved bedstead, which may be used as a vehicle."<br><i>Letters Patent sealed.</i>                                                                                                                             |
| CLARKSON.<br>1st February 1853.                           | 270. THOMAS CHARLES CLARKSON, of 216, High Street, Wapping, in the County of Middlesex, for an invention for—"Improvements in giving elasticity to certain structures, and parts thereof."<br><i>Provisional protection only.</i>                                                                                            |
| WHELE.<br>1st February 1853.                              | 271. EDWIN WHELE, of Shiffnal, in the County of Salop, Engineer, for an invention for—"Improvements in candles, and machinery or apparatus for making thereof."<br><i>Provisional protection only.</i>                                                                                                                       |
| MURGATROYD.<br>1st February 1853.                         | 272. JOSHUA MURGATROYD, of Heaton Norris, in the County of Lancaster, Millwright and Engineer, for an invention for—"Improvements in the construction of boilers and apparatus connected therewith."<br><i>Letters Patent sealed.</i>                                                                                        |
| COCKERILL.<br>BARNETT.<br>1st February 1853.              | 273. JOHN COCKERILL, of the Town of Kingston-upon-Hull, in the County of the same Town, Grocer, and THOMAS BARNETT, of the same Town, Miller, for an invention for—"Improvements in the construction and use of coffee-roasters."<br><i>Letters Patent sealed.</i>                                                           |
| WILLIAMS.<br>PLIMPTON.<br>BUCHANAN.<br>1st February 1853. | 274. THOMAS WILLIAMS, Engineer, and JAMES PLIMPTON, Gentleman, both of Middlesex, and ROBERTSON BUCHANAN, Gentleman, of the City of London, for an invention for—"A method of actuating ships' pumps by the motion of the vessel at sea, which is also applicable to other purposes."<br><i>Provisional protection only.</i> |
| CARTER.<br>1st February 1853.                             | 275. JAMES CARTER, of Oldham, in the County of Lancaster, Painter, for an invention for—"An improved rotary engine."<br><i>Letters Patent sealed.</i>                                                                                                                                                                        |
| NEWTON.<br>1st February 1853.                             | 276. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in block-printing machinery."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                        |
| LEVESLEY.<br>1st February 1853.                           | 277. WILLIAM LEVESLEY, of Old Ford, in the County of Middlesex, Cutler, for an invention for—"Improvements in the construction of pencil-cases."<br><i>Provisional protection only.</i>                                                                                                                                      |



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| GREGORY.<br>2nd February 1853.               | 278. WILLIAM GREGORY, of Vernon Place, Bloomsbury, in the County of Middlesex, for an invention for—"Improvements in the manufacture of bricks and tiles."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                  |
| BELLFORD.<br>2nd February 1853.              | 279. AUGUSTE EDOUARD LORADOUX BELLFORD, of the United Patent Office, 16, Castle Street, Holborn, London, for an invention for—"A new and useful composition of matter termed 'Metallic oil,' to be used for lubricating the axles of wheels and the rubbing or working parts of steam-engines, and every description of machinery and apparatus, for softening hemp and other fibrous substances preparatory to spinning the same, and for other purposes."— <i>A communication.</i><br><i>Provisional protection only.</i> |
| BELLFORD.<br>2nd February 1853.              | 280. AUGUSTE EDOUARD LORADOUX BELLFORD, of the United Patent Office, 16, Castle Street, Holborn, London, for an invention for—"Improvements in the manufacture of candles."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                 |
| BELLFORD.<br>2nd February 1853.              | 281. AUGUSTE EDOUARD LORADOUX BELLFORD, of the United Patent Office, 16, Castle Street, Holborn, London, for an invention for—"Improvements in life-boats and vessels of a similar nature."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                       |
| BELLFORD.<br>2nd February 1853.              | 282. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, in the County of Middlesex, Patent Agent, for an invention for—"A stoppering apparatus for bottles containing liquids, of which small quantities are generally poured out at a time."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                                                                                                                |
| BELLFORD.<br>2nd February 1853.              | 283. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in furnaces and apparatus combined therewith for making wrought iron directly from the ore, and for collecting and condensing the oxydes or other substances evaporated in the process of deoxydizing iron or other ores."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                    |
| SMEETON.<br>2nd February 1853.               | 284. JOHN SMEETON, of Limehouse, near London, for an invention for—"Improvements in the manufacture of dials, applicable to telegraphic instruments, chronometers, barometers, sextants, quadrants, compasses, clocks, watches, and other time-pieces."— <i>Provisional protection only.</i>                                                                                                                                                                                                                                |
| KIDDLE.<br>2nd February 1853.                | 285. JOHN VERINDER KIDDLE, of 4, Elder Street, Norton Folgate, in the County of Middlesex, for an invention for—"Improvements in cocks or taps."— <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                             |
| WILLIAMS.<br>2nd February 1853.              | 286. OWEN WILLIAMS, of Stratford, in the County of Essex, for an invention for—"Improvements in water-closets."— <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                              |
| ABADIE.<br>LAURET.<br>2nd February 1853.     | 287. ISMAEL ISAAC ABADIE and HENRI LAURET, of Paris, in the Empire of France, Umbrella and Parasol Manufacturers, for an invention for—"An improved manufacture of parasols."— <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                |
| BROOMAN.<br>2nd February 1853.               | 288. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in expansion valves for steam-engines."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                            |
| PAINE.<br>2nd February 1853.                 | 289. THOMAS PAINE, of Woolwich, in the County of Kent, Bootmaker, for an invention for—"Improvements in heels for boots, shoes, and other coverings for the feet."— <i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                     |
| SPILLER.<br>CROWHURST.<br>3rd February 1853. | 290. THOMAS SPILLER and ANTHONY CROWHURST, of 5, Red Lion Square, in the County of Middlesex, for an invention for—"The propelling steam vessels."— <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                           |
| JOHN BOWER.<br>3rd February 1853.            | 291. MANOAH BOWER, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved apparatus to prevent the throwing up of mud by the wheels of vehicles."— <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                    |
| HECKETHORN.<br>3rd February 1853.            | 292. JOHN HECKETHORN, of Marquis Villas, Canonbury, in the County of Middlesex, for an invention for—"An improved colouring matter for coating or covering the exterior or interior of buildings, some of the ingredients of which such colouring matter is composed being capable of conversion into size, paste, and ground-colour for priming or giving the first coat or covering to work intended to be covered with oil paint."— <i>Letters Patent sealed.</i>                                                        |



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| WRIGHT.<br>3rd February 1853.             | 293. WILLIAM SCARLETT WRIGHT, of Pont Street, Belgrave Square, in the County of Middlesex, for an invention for—"An improved bath."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                        |
| NEWBERY.<br>3rd February 1853.            | 294. GEORGE JOHN NEWBERY, of Rose Cottage, Woodland Grove, East Greenwich, in the County of Kent, for an invention for—"Improvements in hinges."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                  |
| BOWER.<br>3rd February 1853.              | 295. JOHN BOWER, of the City of Dublin, Civil Engineer, for an invention for—"Improvements in and applicable to certain descriptions of engines for driving piles."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                        |
| DULAURIER.<br>3rd February 1853.          | 296. BENOIT DULAURIER, residing at Paris, Rue du Delta Projettée, 8, for an invention for—"A new application of a system to render boots and shoes waterproof without sewing or nailing whatever, and the said invention to be applied also to render waterproof hats, caps, and general hatting. My invention consists also in the application of machines to the manufacturing of general shoemaking and hatting."<br><i>Provisional protection only.</i> |
| JOHNSON.<br>3rd February 1853.            | 297. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in gas-burners and in regulating the combustion of gas."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                           |
| GREENHALGH.<br>3rd February 1853.         | 298. JAMES GREENHALGH, of Cheetham, in the County of Lancaster, Yeoman for an invention for—"Certain improvements in churns." <i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                           |
| TYLOR.<br>FRASI.<br>3rd February 1853.    | 299. ALFRED TYLOR, of Warwick Lane, Newgate Street, in the City of London, and HENRY GEORGE FRASI, of 84, Herbert Street, New North Road, in the County of Middlesex, for an invention for—"Improvements in waterclosets."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                 |
| RICHARDS.<br>BECK.<br>3rd February 1853.  | 300. WILLIAM RICHARDS, of Stourbridge, Engineer, and EDWIN BECK, of Cookley, Ironfounder, for an invention for—"Certain improvements in machinery for exhausting and driving atmospheric air." <i>Provisional protection only.</i>                                                                                                                                                                                                                          |
| CROWTHER.<br>ALSOP.<br>3rd February 1853. | 301. JOHN CROWTHER, of Huddersfield, Contractor, and JOSEPH ALSOP, of Huddersfield, Baker, for an invention for—"Improvements in baking bread." <i>Provisional protection only.</i>                                                                                                                                                                                                                                                                         |
| BROWN.<br>4th February 1853.              | 302. WILLIAM BROWN, of Birmingham, in the County of Warwick, Clerk of Works, for an invention for—"An improvement or improvements in the construction of metallic bedsteads." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                 |
| PRICE.<br>4th February 1853.              | 303. DAVID LLOYD PRICE, of Beaufort, in the County of Brecknock, Watch and Clock Maker, for an invention for—"Improvements in signalling by electricity on railway trains and railways, and in the appliances used therein." <i>Provisional protection only.</i>                                                                                                                                                                                            |
| JONES.<br>4th February 1853.              | 304. FREDERICK JOHN JONES, of Addle Street, in the City of London, Manufacturer, for an invention for—"Improvements in fastenings for bands, belts, straps, and other similar articles."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                                                                                             |
| WEBLEY.<br>4th February 1853.             | 305. PHILIP WEBLEY, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in repeating pistols and other fire-arms." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                      |
| WINIWARTER.<br>4th February 1853.         | 306. GEORGE WINIWARTER, of 38, Red Lion Square, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in the application of explosive compounds." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                            |
| PERKINS.<br>4th February 1853.            | 307. JOHN PERKINS, of Manchester, in the County of Lancaster, Mechanical Draughtsman, for an invention for—"Improvements in the treatment of certain bituminous mineral substances, and in obtaining products therefrom." <i>Letters Patent sealed.</i>                                                                                                                                                                                                     |
| GRIFFITHS.<br>4th February 1853.          | 308. ROBERT GRIFFITHS, of Great Ormond Street, in the County of Middlesex, for an invention for—"Improvements in the manufacture of bolts and rivets." <i>Provisional protection only.</i>                                                                                                                                                                                                                                                                  |



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| DUDGEON.<br>4th February 1853.                   | 309. JOHN DUDGEON, of Saint Michael's Chambers, 42, Cornhill, in the City of London, for an invention for—"Improvements in machinery used for raising propellers."<br><i>Letters Patent sealed.</i>                                                                                                                                                                |
| ASBURY.<br>4th February 1853.                    | 310. JACOB VALE ASBURY, of Enfield, in the County of Middlesex, Surgeon, for an invention for—"Improvements in railway carriages."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                |
| EDGAR.<br>4th February 1853.                     | 311. WILLIAM EDGAR, of Giltspur Street, in the City of London, Boot and Shoe Manufacturer, for an invention for—"An improved boot, particularly suitable for the use of emigrants and persons at sea."<br><i>Provisional protection only.</i>                                                                                                                      |
| LETTS.<br>4th February 1853.                     | 312. GEORGE LETTS, of Northampton, in the County of Northampton, Mechanic, for an invention for—"Improvements in machines for cutting and mincing meat and other materials for sausages and other like purposes, and for filling the prepared skins with the meat and other materials when so cut."<br><i>Letters Patent sealed.</i>                               |
| WALKER.<br>4th February 1853.                    | 313. WILLIAM WALKER, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in apparatus to be employed for the purposes of drying."<br><i>Letters Patent sealed.</i>                                                                                                                                                     |
| WOODWARD.<br>4th February 1853.                  | 314. ALFRED WOODWARD, of George Street, Edgbaston, in the County of Warwick, Mechanic, for an invention for "A double-action vertical lever-churn."<br><i>Provisional protection only.</i>                                                                                                                                                                         |
| WOODWARD.<br>4th February 1853.                  | 315. ALFRED WOODWARD, of George Street, Edgbaston, in the County of Warwick, Mechanic, for an invention for—"A self-acting cam press."<br><i>Provisional protection only.</i>                                                                                                                                                                                      |
| PROSSER.<br>5th February 1853.                   | 316. RICHARD PROSSER, Civil Engineer, 18, Broad St <sup>d</sup> , Birmingham, in the County of Warwick, for an invention for—"Improvements in the construction of printing-rollers used in machines for printing calicoes and other substances."<br><i>Letters Patent sealed.</i>                                                                                  |
| PEACOCK.<br>5th February 1853.                   | 317. THOMAS PEACOCK, of Aston-under-Lyne, in the County of Lancaster, Hat and Silk Manufacturer, for an invention for—"Certain improvements in weaving and in machinery for weaving hat-plush, and other cut-piled fabrics."<br><i>Letters Patent sealed.</i>                                                                                                      |
| HEWITSON.<br>5th February 1853.                  | 318. GEORGE HEWITSON, of Bradford, in the County of York, Machine Maker, for an invention for—"Improvements in machinery or apparatus for measuring or indicating the length of yarn as it is spun or wound on bobbins or rollers."<br><i>Letters Patent sealed.</i>                                                                                               |
| WOLLOWICZ.<br>5th February 1853.                 | 319. ANTOINE WOLLOWICZ, of Paris, in the Empire of France, Gentleman, for an invention for—"Improvements in primers for fire-arms."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                               |
| WHITEHOUSE.<br>WHITEHOUSE.<br>5th February 1853. | 320. JOHN WHITEHOUSE the elder, and JOHN WHITEHOUSE the younger, of Birmingham, in the County of Warwick, Brass-founders, for an invention for—"Certain improvements in the manufacture of knobs for doors, and other like uses, part of which improvements is applicable to the manufacture of certain articles of earthenware."<br><i>Letters Patent sealed.</i> |
| WERCKSHAGEN.<br>5th February 1853.               | 321. CHARLES FRÉDÉRIC WERCKSHAGEN, of Barmen, (Prussia), for an invention for—"Certain improvements in the manufacture of carbonate of soda and potash."<br><i>Letters Patent sealed.</i>                                                                                                                                                                          |
| MASSONNET.<br>5th February 1853.                 | 322. ANDRÉ MICHEL MASSONNET, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"Certain improvements in alloys of metal and of other substances, and also in the application of the same to various useful purposes."<br><i>Letters Patent sealed.</i>                                                     |
| CROSSBY.<br>5th February 1853.                   | 323. WILLIAM CROSSBY, of Sheffield, in the County of York, for an invention for—"The consumption or burning of smoke."<br><i>Provisional protection only.</i>                                                                                                                                                                                                      |
| CAMPBELL.<br>5th February 1853.                  | 324. JOHN CAMPBELL, of Bowfield, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in the treatment or finishing of textile fabrics and materials."<br><i>Letters Patent sealed.</i>                                                                                                                                           |
| NICOLL.<br>5th February 1853.                    | 325. HENRY JOHN NICOLL, of the firm of H. J. and D. NICOLL, Regent Street, for an invention for—"Improvements in garments for travelling."<br><i>Provisional protection only.</i>                                                                                                                                                                                  |

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| PARKES.<br>5th February 1853.                             | 326. ALEXANDER PARKES, of Burry Port, in the County of Carmarthen, South Wales, for an invention for—"Improvements in the separation of certain metals from their ores or other compounds."<br><i>Letters Patent sealed.</i>                                                                                                        |
| PALMER.<br>5th February 1853.                             | 327. EDWARD PALMER, of Woodford Green, in the County of Essex, for an invention for—"Improvements in carriages used on railways."<br><i>Letters Patent sealed.</i>                                                                                                                                                                  |
| BELLFORD.<br>5th February 1853.                           | 328. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in metal musical wind instruments (to be called 'Besson's system')."— <i>A communication.</i><br><i>Complete specification; Letters Patent sealed.</i>                          |
| COWAN.<br>5th February 1853.                              | 329. JOSEPH COWAN, of Liverpool, in the County Palatine of Lancaster, Cabinet Maker, for an invention for—"Improvements in propelling steam vessels."<br><i>Provisional protection only.</i>                                                                                                                                        |
| ROMAINE.<br>7th February 1853.                            | 330. WILLIAM ROMAINE, of Sackville Street, Piccadilly, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in rendering wood more durable and unflammable."<br><i>Letters Patent sealed.</i>                                                                                                             |
| SCOTT. BROUGH.<br>RINOE. MANN.<br>7th February 1853.      | 331. WILLIAM SCOTT, Engineer, ROBERT BROUGH, Engineer, JAMES RINOE, Boiler Maker, all of Brighton, and THOMAS MANN, Engineer, of Strood, Rochester, for an invention for—"Improvements in steam engines."<br><i>Letters Patent sealed.</i>                                                                                          |
| TABBERNER.<br>7th February 1853.                          | 332. JOHN LONDE TABBERNER, of Lorn Road, North Brixton, in the County of Surrey, Gentleman, for an invention for—"Improvements in the mode of smelting iron and other ores, and in the manufacture of lime."<br><i>Provisional protection only.</i>                                                                                 |
| TABBERNER.<br>7th February 1853.                          | 333. JOHN LONDE TABBERNER, of Lorn Road, North Brixton, in the County of Surrey, Gentleman, for an invention for—"Improvements in the application of granite and similar substances to ornamenting purposes, and to the construction of buildings."<br><i>Provisional protection only.</i>                                          |
| BROOMAN.<br>7th February 1853.                            | 334. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in sail hanks for securing staysails, jibs, and other sails to their proper stays."— <i>A communication.</i><br><i>Letters Patent sealed.</i>        |
| BELLFORD.<br>8th February 1853.                           | 335. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the treatment of bituminous and asphaltic matters; rendering them applicable to various useful purposes."— <i>A communication.</i><br><i>Letters Patent sealed.</i>          |
| HOWARTH.<br>8th February 1853.                            | 336. THOMAS HOWARTH, of Rochdale, in the County of Lancaster, Chemist, &c., for an invention for—"A certain improved cement for closing steam or other joints."<br><i>Provisional protection only.</i>                                                                                                                              |
| BUCHANAN.<br>8th February 1853.                           | 337. JOHN BUCHANAN, of Leamington, in the County of Warwick, for an invention for—"An improved propeller, as to affixing the blades in the boss, and affixing the bosses to the spindle or centre shaft, and in the mode of placing it, and in controlling, lowering, and detaching the same."<br><i>Letters Patent sealed.</i>     |
| ALLAN.<br>8th February 1853.                              | 338. THOMAS ALLAN, of Adelphi Terrace, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in protecting telegraph wires."<br><i>Letters Patent sealed.</i>                                                                                                                                              |
| ALLAN.<br>8th February 1853.                              | 339. THOMAS ALLAN, of Adelphi Terrace, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in galvanic batteries."<br><i>Letters Patent sealed.</i>                                                                                                                                                      |
| REYNOLDS.<br>REYNOLDS.<br>REYNOLDS.<br>9th February 1853. | 340. THOMAS REYNOLDS, of Singleton Street, Hoxton, in the County of Middlesex, Gentleman; HENRY REYNOLDS, of Hoxton, Engineer; and STEPHEN REYNOLDS, of Charles Street, Westminster, Coffee House Keeper, for an invention for—"Improvements in the means of retarding the progress of carriages."<br><i>Letters Patent sealed.</i> |



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| POOLEY.<br>9th February 1853.                       | 341. HENRY POOLEY, of Liverpool, in the County of Lancaster, Iron Founder, for an invention for—"Improvements in weighing machines."— <i>Partly a communication. Letters Patent sealed.</i>                                                                                                                                                      |
| NEWTON.<br>9th February 1853.                       | 342. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery or apparatus for digging, excavating, or removing earth."— <i>A communication. Provisional protection only.</i>                                                            |
| BINKS.<br>BENNETT.<br>STOREY.<br>9th February 1853. | 343. WILLIAM BINKS, of Timperly, in the County of Chester, Gentleman, and SAMUEL BENNETT, and THOMAS STOREY, both of Manchester, in the County of Lancaster, Brass Founders, for an invention for—"Certain improvements in pumps or apparatus for raising and forcing fluids."— <i>Provisional protection only.</i>                              |
| LITTLE.<br>9th February 1853.                       | 344. JOHN LITTLE, of Glasgow, in the County of Lanark, North Britain, Ironmonger, for an invention for—"Improvements in lubricating mechanism."— <i>Provisional protection only.</i>                                                                                                                                                             |
| BIRKETT.<br>9th February 1853.                      | 345. WILLIAM BIRKETT, of Manningham Mills, Bradford, in the County of York, Chemist, for an invention for—"Improvements in treating soap-suds or wash waters in which soap has been used."— <i>Letters Patent sealed.</i>                                                                                                                        |
| SEAWARD.<br>9th February 1853.                      | 346. JOHN SEAWARD, of the Canal Iron Works, Poplar, in the County of Middlesex, Engineer, for an invention for—"Improvements in marine engines."— <i>Letters Patent sealed.</i>                                                                                                                                                                  |
| MACHIN.<br>9th February 1853.                       | 347. ISAIAH JAMES MACHIN, of Leigh Street, in the County of Middlesex, Engineer, for an invention for—"An improvement in nutcrackers."— <i>Letters Patent sealed.</i>                                                                                                                                                                            |
| ILES.<br>9th February 1853.                         | 348. CHARLES ILES, of Peel Works, Birmingham, for an invention for—"Improvements in pointing wire."— <i>Letters Patent sealed.</i>                                                                                                                                                                                                               |
| WEBSTER.<br>9th February 1853.                      | 349. JOHN WEBSTER, of Ipswich, for an invention for—"Improvements in treating animal matters and in manufacturing manure."— <i>Letters Patent sealed.</i>                                                                                                                                                                                        |
| WILSON.<br>10th February 1853.                      | 350. JAMES SPOTSWOOD WILSON, of Tavistock Place, Tavistock Square, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of furnaces or flues, whereby economy in the use of fuel, the consumption of smoke or gases, and the utilizing thereof, are ensured."— <i>Provisional protection only.</i> |
| CURTIS.<br>10th February 1853.                      | 351. WILLIAM JOSEPH CURTIS, of 23, Birchin Lane, in the City of London, in the County of Middlesex, Civil Engineer, for an invention for—"An improvement in candlesticks."— <i>Provisional protection only.</i>                                                                                                                                  |
| CUYLITS.<br>10th February 1853.                     | 352. CHARLES CUYLITS, of Antwerp, in the Kingdom of Belgium, Merchant, for an invention for—"Improvements in apparatus for regulating or governing the speed of steam or other engines."— <i>A communication. Letters Patent sealed.</i>                                                                                                         |
| NEWTON.<br>10th February 1853.                      | 353. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in instruments or apparatus for facilitating the examination of various internal parts of the human frame."— <i>A communication. Provisional protection only.</i>                       |
| HUNTER.<br>10th February 1853.                      | 354. JOHN HUNTER, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in the manufacture of textile fabrics."— <i>Provisional protection only.</i>                                                                                                                                              |
| FULTON.<br>10th February 1853.                      | 355. WILLIAM FULTON, of Paisley, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in the treatment, cleansing, or finishing of textile fabrics."— <i>Letters Patent sealed.</i>                                                                                                                             |
| ANDERSON.<br>10th February 1853.                    | 356. JAMES ANDERSON, of Auchnagie, in the County of Perth, North Britain, Farmer, for an invention for—"Improvements in steam-engines."— <i>Provisional protection only.</i>                                                                                                                                                                     |
| BALL.<br>10th February 1853.                        | 357. WILLIAM BALL, of Ilkeston, in the County of Derby, Lace and Glove Manufacturer, for an invention for—"Improvements in machinery for producing looped fabrics."— <i>Letters Patent sealed; no specification filed.</i>                                                                                                                       |
| McFARLANE.<br>10th February 1853.                   | 358. HENRY McFARLANE, of Lawrence Lane, in the City of London, Merchant, for an invention for—"Improvements in machinery for excavating."— <i>A communication. Provisional protection only.</i>                                                                                                                                                  |



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| ASH.<br>10th February 1853.        | 359. ROBERT ASH, of 211, High Street, in the Borough of Southwark, in the County of Surrey, for an invention for—"Improvements in stopping bottles and other vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                 |
| HUTCHISON.<br>10th February 1853.  | 360. GEORGE HUTCHISON, of Glasgow, in the County of Lanark, Merchant, for an invention for—"Improvements in treating oils and other fatty matters."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                    |
| BREESE.<br>10th February 1853.     | 361. CHARLES BREESE, of the firm of Breese and Hayward, of Birmingham, in the County of Warwick, Japanners, for an invention for—"Improvements in ornamenting papier mâché, japanned iron, china, and other hard or bright surfaces, with gold."<br><i>Letters Patent sealed.</i>                                                                                                                       |
| ROGER.<br>10th February 1853.      | 362. ROBERT ROGER, of Stockton-on-Tees, in the County of Durham, Engineer and Iron-founder, for an invention for—"Improvements in obtaining motive-power."<br><i>Provisional protection only.</i>                                                                                                                                                                                                       |
| POTTS.<br>10th February 1853.      | 363. WILLIAM POTTS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in sepulchral and other commemorative monuments."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                        |
| THOMAS.<br>11th February 1853.     | 364. ROBERT THOMAS, of Manchester, in the County of Lancaster, Engineer and Machinist, for an invention for—"Improvements in machinery or apparatus applicable to planing, slotting, shaping, grooving, or other similar purposes."<br><i>Provisional protection only.</i>                                                                                                                              |
| MURRAY.<br>11th February 1853.     | 365. SIR JAMES MURRAY, Knight, Doctor of Medicine, of Dublin, for an invention for—"Improvements in deodorizing cod-liver oil, in rendering it more agreeable and easier to use, either by itself or mixed, and so as to be capable of being administered in larger quantities and with greater success."<br><i>Letters Patent sealed.</i>                                                              |
| SANGUINÈDE.<br>11th February 1853. | 366. ANTOINE SANGUINÈDE, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, Manufacturer, for an invention for—"An improved clasp or buckle."<br><i>Provisional protection only.</i>                                                                                                                                                                                  |
| CHOPPIN.<br>11th February 1853.    | 367. WILLIAM CHOPPIN, of the City of London, Lock Maker, for an invention for—"Improvements in locks."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                 |
| REA.<br>11th February 1853.        | 368. ROBERT DAVIS REA, Proprietor of the Great Central Horse and Carriage Repository, St. George's Road, Southwark, in the County of Surrey, for an invention for—"Improvements in bits."<br><i>Letters Patent sealed.</i>                                                                                                                                                                              |
| MELLISH.<br>12th February 1853.    | 369. THOMAS ROBERT MELLISH, of Sloane Street, Chelsea, in the County of Middlesex, Glass Cutter and Mounter, for an invention for—"Improvements in the construction and mode of closing scent and other bottles."<br><i>Provisional protection only.</i>                                                                                                                                                |
| STANFORD.<br>12th February 1853.   | 370. JOHN FORDHAM STANFORD, of No. 9, Arundel Street, in the Parish of St. Clements Danes, in the County of Middlesex, for an invention for—"An improvement in the method of draining dwelling-houses and other buildings, and open and enclosed spaces in cities and towns, where sewers and drains are now or may be hereafter constructed."<br><i>Provisional protection only.</i>                   |
| WINIWARTER.<br>12th February 1853. | 371. GEORGE WINIWARTER, of 38, Red Lion Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in fire-arms."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                               |
| PERRY.<br>12th February 1853.      | 372. THOMAS JAMES PERRY, of the Lozells, in the Parish of Aston juxta Birmingham, in the County of Warwick, Engine Turner, for an invention for—"A new or improved method of constructing cornice-poles and picture and curtain rods, and other rods from which articles are suspended."<br><i>Provisional protection only.</i>                                                                         |
| PARRY.<br>12th February 1853.      | 373. GEORGE PARRY, of the Ebbw Vale Iron Works, in the County of Monmouth, Furnace Manager, for an invention for—"Improvements in blast furnaces."<br><i>Provisional protection only.</i>                                                                                                                                                                                                               |
| BURSILL.<br>12th February 1853.    | 374. GEORGE HENRY BURSILL, of Offord Road, Barnsbury Park, Islington, in the County of Middlesex, Engineer, for an invention for—"Improvements in operating upon auriferous quartz, clays, and other minerals, preparatory to and in order to accomplish the separation of the gold and other metals; also in machinery or apparatus for effecting such improvements."<br><i>Letters Patent sealed.</i> |



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| LYSNAR.<br>12th February 1853.             | 375. GEORGE LEE LYSNAR, of 85, Park Street, Grosvenor Square, in the County of Middlesex, for an invention for—"Improvements in swivel hooks and such like fasteners."<br><i>Letters Patent sealed.</i>                                                                                                                                           |
| PIDDING.<br>12th February 1853.            | 376. WILLIAM PIDDING, of the Strand, in the County of Middlesex, Gentleman, for an invention for—"Improvements in crushing, drilling, or otherwise treating, ores, stone, quartz, or other substances in mining operations, and in the machinery or apparatus connected therewith."<br><i>Letters Patent sealed.</i>                              |
| PIDDING.<br>12th February 1853.            | 377. WILLIAM PIDDING, of the Strand, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the treatment of oleaginous, fatty, or gelatinous substances, for purifying, decolourizing, compounding, or clarifying the same."<br><i>Letters Patent sealed.</i>                                                              |
| HADLEY.<br>12th February 1853.             | 378. CHARLES HADLEY, of Lower Hurst Street, Birmingham, for an invention for—"Improvements in the means of communication between the passengers, guard, and driver of a railway-train, parts of which improvements are applicable to communicating on vessels."<br><i>Letters Patent sealed.</i>                                                  |
| NEWTON.<br>14th February 1853.             | 379. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in apparatus to be employed for veneering surfaces."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                           |
| BURNETT.<br>14th February 1853.            | 380. CHARLES JOHN BURNETT, of Edinburgh, Scotland, Gentleman, for an invention for—"Certain improvements in apparatus or mechanism for driving machinery through the agency of water."<br><i>Letters Patent sealed.</i>                                                                                                                           |
| FONTAINE MOREAU.<br>14th February 1853.    | 381. PETER ARMAND LE COMTE DE FONTAINE-MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"Certain improvements in treating fibrous substances."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                              |
| FONTAINE MOREAU.<br>14th February 1853.    | 382. PETER ARMAND LE COMTE DE FONTAINE-MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"Improvements in the mode of giving flexibility to beds, sofas, seats, and other similar articles."— <i>A communication.</i><br><i>Letters Patent sealed.</i> |
| FONTAINE MOREAU.<br>14th February 1853.    | 383. PETER ARMAND LE COMTE DE FONTAINE-MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"Certain improvements in the manufacture of tiles for roofing."— <i>A communication.</i><br><i>Provisional protection only.</i>                               |
| GERVAIS.<br>14th February 1853.            | 384. JEAN ANTOINE GERVAIS, of No. 4, South Street, Finsbury, in the County of Middlesex, Chemist, for an invention for—"Certain improvements in treating fermentable liquids, and in the machinery or apparatus employed therein."<br><i>Provisional protection only.</i>                                                                         |
| MOUATIS.<br>14th February 1853.            | 385. FRANCIS CLARKE MOUATIS, Builder, of 4, South Street, Finsbury, in the County of Middlesex, for an invention for—"An improved mode of raising water."<br><i>Letters Patent sealed.</i>                                                                                                                                                        |
| LAMBERT.<br>15th February 1853.            | 386. CLAUDE JOSEPH LAMBERT, of No. 4, South Street, Finsbury, in the County of Middlesex, for an invention for—"Certain improvements in the preparation of bread and biscuits."<br><i>Provisional protection only.</i>                                                                                                                            |
| CLARK.<br>15th February 1853.              | 387. WILLIAM CLARK, of 31, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the manufacture of colors and paints."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                        |
| BETHELL.<br>15th February 1853.            | 388. JOHN BETHELL, of No. 8, Parliament Street, Westminster, Gentleman, for an invention for—"Improvements in obtaining copper and zinc from their ores."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                               |
| COCKER.<br>HERBERT.<br>15th February 1853. | 389. VALENTINE COCKER, of Salford, in the County of Lancaster, Machine Maker, and REUBEN HERBERT, of Manchester, in the same County, Commission Agent, for an invention for—"Certain improvements in and applicable to looms for weaving."— <i>A communication.</i><br><i>Complete specification; protection for SIX months only.</i>             |
| GREENING.<br>15th February 1853.           | 390. BENJAMIN GREENING, of Manchester, in the County of Lancaster, Wire Worker, for an invention for—"Improvements in machinery for making fences and other similar articles of wire."<br><i>Letters Patent sealed.</i>                                                                                                                           |



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| KENNARD.<br>15th February 1853.               | 391. THOMAS WILLIAM KENNARD, of Duke Street, Adelphi, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus for improving the draught of chimneys." <i>Provisional protection only.</i>                                                                                                                   |
| CHINNOCK.<br>15th February 1853.              | 392. FREDERICK CHINNOCK, of No. 23, Regent Street, St. James's, London, for an invention for—"Improved means of securing axles in their boxes."— <i>A communication. Provisional protection only.</i>                                                                                                                                     |
| STIFF.<br>15th February 1853.                 | 393. GEORGE STIFF, of Brixton Hill, in the County of Surrey, Gentlemen, for an invention for—"Certain improvements in manufacturing paper." <i>Letters Patent sealed.</i>                                                                                                                                                                 |
| NICOLE.<br>15th February 1853.                | 394. ADOLPHE NICOLE, of 80, Dean Street, Soho Square, in the County of Middlesex, for an invention for—"Improvements in rotary engines." <i>Letters Patent sealed.</i>                                                                                                                                                                    |
| NORMANDY.<br>15th February 1853.              | 395. ALPHONSE RENE LE MIRE DE NORMANDY, of Judd Street, in the County of Middlesex, for an invention for—"Improvements in the manufacture of articles made of gutta percha."— <i>Partly a communication. Letters Patent sealed.</i>                                                                                                       |
| WHITTON.<br>WHITTON.<br>15th February 1853.   | 396. WILLIAM BLISSETT WHITTON and GEORGE SAMUEL WHITTON, of 18, Prince's Street, Lambeth, in the County of Surrey, for an invention for—"Improvements in the manufacture of sewer and other pipes." <i>Letters Patent sealed.</i>                                                                                                         |
| RIDSDALE.<br>RIDSDALE.<br>15th February 1853. | 397. JOSEPH and ALFRED RIDSDALE, of the Minories, in the City of London, Engineers, for an invention for—"Improvements in ships' side-lights, scuttles, or ports." <i>Letters Patent sealed.</i>                                                                                                                                          |
| DIRCKS.<br>15th February 1853.                | 398. HENRY DIRCKS, of the Patent Agency Office, 32, Moorgate Street, in the City of London, Engineer, for an invention for—"An improved sewing machine."— <i>A communication. Provisional protection only.</i>                                                                                                                            |
| FRANCIS.<br>15th February 1853.               | 399. HENRY FRANCIS, of West Strand, St. Martin's in the Fields, in the County of Middlesex, Engineer, for an invention for—"Improvements in instruments for cutting wool, hair, and vegetable matters." <i>Provisional protection only.</i>                                                                                               |
| LUDLOW.<br>16th February 1853.                | 400. HENRY STEPHEN LUDLOW, residing at 107, Redcliff Street, in the City and County of Bristol, Brewer, for an invention for—"An improved process for simultaneously removing dust, stones, or other foreign matter, and for separating the superior and inferior grains in wheat, barley, and malt." <i>Provisional protection only.</i> |
| CUTLER.<br>16th February 1853.                | 401. JOB CUTLER, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of spoons and forks, and other similar articles for domestic use." <i>Letters Patent sealed.</i>                                                                                                            |
| COOK.<br>16th February 1853.                  | 402. BENJAMIN COOK, of Birmingham, in the County of Warwick, for an invention for—"Improvements in apparatus for lighting fires." <i>Provisional protection only.</i>                                                                                                                                                                     |
| MACKAY.<br>16th February 1853.                | 403. GEORGE GRAY MACKAY, of Grangemouth, near Falkirk, North Britain, Managing Proprietor of the Grangemouth Coal Company, for an invention for—"Improvements in the construction of drain pipes." <i>Letters Patent sealed.</i>                                                                                                          |
| SKERTCHLY.<br>16th February 1853.             | 404. JOSEPH SKERTCHLY, of Kingsland, Middlesex, and Ansty, in the County of Leicester, Engineer, for an invention for—"Improvements in copying-presses." <i>Letters Patent sealed.</i>                                                                                                                                                    |
| DAY.<br>16th February 1853.                   | 405. JOHN DAY, of Islington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in apparatus for holding and protecting insulated telegraphic wires." <i>Provisional protection only.</i>                                                                                                                          |
| SY.<br>16th February 1853.                    | 406. EDOUARD SY, of 17, Clifford Street, Bond Street, in the County of Middlesex, for an invention for—"Improvements in book-binding." <i>Letters Patent sealed.</i>                                                                                                                                                                      |
| PERRY.<br>16th February 1853.                 | 407. JOHN GEORGE PERRY, of 12, Westbourne Street, Hyde Park Gardens, for an invention for—"Improvements in book-binding, to facilitate the finding of places in books." <i>Letters Patent sealed.</i>                                                                                                                                     |
| SHEPPARD.<br>16th February 1853.              | 408. CHARLES SHEPPARD, of Maesteg Iron Works, near Bridgend, in the County of Glamorgan, Ironmaster and Engineer, for an invention for—"An improved stove and apparatus for heating air for blast purposes." <i>Letters Patent sealed.</i>                                                                                                |
| JONES.<br>16th February 1853.                 | 409. WRIGHT JONES, of Pendleton, in the County of Lancaster, Engineer, for an invention of—"Improvements in machinery or apparatus for stretching woven fabrics." <i>Provisional protection only.</i>                                                                                                                                     |



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| <p>NEWTON.<br/>16th February 1853.</p> <p>BROWNE.<br/>17th February 1853.</p> <p>ADAMS.<br/>17th February 1853.</p> <p>MURPHY.<br/>17th February 1853.</p> <p>PIDDING.<br/>17th February 1853.</p> <p>WALKER.<br/>17th February 1853.</p> <p>GORDON.<br/>17th February 1853.</p> <p>COCHRANE.<br/>17th February 1853.</p> <p>OGDEN.<br/>GIBSON.<br/>17th February 1853.</p> <p>KUFAHL.<br/>17th February 1853.</p> <p>HAWES.<br/>17th February 1853.</p> <p>WATT.<br/>BURGESS.<br/>17th February 1853.</p> <p>FROST.<br/>17th February 1853.</p> <p>HORSFALL.<br/>18th February 1853.</p> <p>MADDEN.<br/>18th February 1853.</p> <p>CLOUGH.<br/>18th February 1853.</p> <p>DARLING.<br/>18th February 1853.</p> | <p>410. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the manufacture of printing surfaces."—<i>A communication.</i><br/><i>Provisional protection only</i></p> <p>411. JOHN COLLIS BROWNE, of Dover Castle, in the County of Kent, Gentleman, for an invention for—"Improvements in the propelling of vessels."<br/><i>Provisional protection only</i></p> <p>412. WILLIAM BRIDGES ADAMS, of Adam Street, Adelphi, in the County of Middlesex, Engineer, for an invention for—"Improvements in railways."<br/><i>Letters Patent sealed.</i></p> <p>413. JAMES MURPHY, of Newport, in the County of Monmouth, Civil Engineer, for an invention for—"Improvements in the permanent way of railways."<br/><i>Letters Patent sealed.</i></p> <p>414. WILLIAM PIDDING, of the Strand, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the treatment and preparation of saccharine substances, and in the machinery or apparatus connected therewith."<br/><i>Letters Patent sealed.</i></p> <p>415. MATTHIAS WALKER, of Horsham, in the County of Sussex, Ironmonger, for an invention for—"Improvements in vessels or apparatus for containing and preserving ale, beer, and other liquors."<br/><i>Letters Patent sealed.</i></p> <p>416. CHARLES GORDON, of the City of Washington, in the District of Columbia, United States of North America, for an invention for—"An improved goniometric protractor, or instrument for setting out and measuring angles and other geometric figures."<br/><i>Provisional protection only.</i></p> <p>417. DAVID COCHRANE, of Manchester, in the County of Lancaster, Manager, for an invention for—"Certain improvements applicable to closing doors."<br/><i>Provisional protection only.</i></p> <p>418. THOMAS CLARK OGDEN, of Manchester, in the County of Lancaster, Cotton Spinner, and WILLIAM GIBSON, of the same place, Manager, for an invention for—"Certain improvements in machinery or apparatus for spinning cotton and other fibrous materials."<br/><i>Letters Patent sealed.</i></p> <p>419. GEORGE LEOPOLD LUDWIG KUFAHL, of Weymouth Terrace, City Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in the application of atmospheric currents to the obtainment of motive-power."<br/><i>Provisional protection only.</i></p> <p>420. WILLIAM HAWES, of 17, Montague Place, Russell Square, for an invention for—"Improvements in the manufacture and refining of sugar."<br/><i>Provisional protection only.</i></p> <p>421. CHARLES WATT, of Selwood Place, Brompton, and HUGH BURGESS, of 27, Grove Terrace, Kentish Town, both in the County of Middlesex, for an invention for—"Improvements in coating iron with copper and brass."<br/><i>Letters Patent sealed.</i></p> <p>422. ISAAC FROST, of 49, Tavistock Terrace, Upper Holloway, in the County of Middlesex, for an invention for—"Improvements in reaping or cutting crops."<br/><i>Letters Patent sealed.</i></p> <p>423. JAMES HORSFALL, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of pianoforte wire; applicable also to articles of iron and steel generally."<br/><i>Provisional protection only.</i></p> <p>424. PETER MADDEN, of Kingstown, near Dublin, Architect, for an invention for—"Improvements in propelling, steering, and regulating vessels."<br/><i>Provisional protection only.</i></p> <p>425. CHARLES BUTLER CLOUGH, of Tyddyn Mold, in the County of Flint, Gentleman, Justice of the Peace, for an invention for—"Certain improved apparatus for detaching boats or other floating vessels from their moorings or fastenings."<br/><i>Provisional protection only.</i></p> <p>426. WILLIAM DARLING, of Glasgow, in the County of Lanark, North Britain, Iron Merchant, for an invention for—"Improvements in the manufacture of malleable iron and other metals."<br/><i>Letters Patent sealed.</i></p> |
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| KINDER.<br>18th February 1853.            | 427. CHARLES KINDER, of Chesterfield, in the County of Derby, Iron Founder for an invention for—"Improvements in mantel or chimney pieces."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                                    |
| NOAD.<br>18th February 1853.              | 428. HENRY NOAD, of 7, Langthorn Street, Stratford, in the County of Essex, for an invention for—"Improvements in treating corn or grain, and obtaining products therefrom."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                                                   |
| DUTTON.<br>18th February 1853.            | 429. NATHAN DUTTON, of 31, Great George Street, Liverpool, in the County Palatine of Lancaster, Cabinet Maker, for an invention for—"Improvements in the manufacture and application of dowels and machinery connected therewith, parts of which machinery are applicable to other purposes."<br><i>Complete specification; Letters Patent sealed.</i>                  |
| WHITE.<br>19th February 1853.             | 430. JAMES CHADNOR WHITE, of Liverpool Street, in the City of London, Harness Maker, for an invention for—"Improvements in fastenings for harness, and which are also applicable to other like purposes."<br><i>Letters Patent sealed.</i>                                                                                                                              |
| HILLS.<br>HILLS.<br>19th February 1853.   | 431. FRANK CLARKE HILLS, of Deptford, in the County of Kent, and GEORGE HILLS, of Lee, also in the County of Kent, Manufacturing Chemists, for an invention for—"Certain improvements in refining sugar, and in preparing materials applicable to that purpose."<br><i>Letters Patent sealed.</i>                                                                       |
| DELL.<br>19th February 1853.              | 432. WILLIAM RAWBONN DELL, of Warrington, in the County of Lancaster, Flour Machine Maker and Wire Weaver, for an invention for—"Improvements in the manufacture of cylinders coated with fine wire webbing, for dressing fine flour by the process of gravitation or sifting, without the aid of any internal brushes or fans."<br><i>Provisional protection only.</i> |
| COWPER.<br>19th February 1853.            | 433. CHARLES COWPER, of 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the manufacture of oxide of zinc or zinc white, and in apparatus for that purpose."— <i>A communication.</i><br><i>Letters Patent sealed; no specification filed.</i>                                                 |
| NIGHTINGALE.<br>19th February 1853.       | 434. CHARLES NIGHTINGALE, of Wardour Steet, Soho, in the County of Middlesex, Bedding Manufacturer, for an invention for—"Certain improvements in drying and heating certain substances or articles."<br><i>Letters Patent sealed.</i>                                                                                                                                  |
| ANDERSON.<br>19th February 1853.          | 435. JAMES ANDERSON, of Auchnagie, in the County of Perth, North Britain, Farmer, for an invention for—"Improvements in obtaining motive-power."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                       |
| TOURNIERE.<br>19th February 1853.         | 436. PIERRE AUGUSTE TOURNIERE, of 14, Kennington Terrace, Upper Kennington Lane, in the County of Surrey, Gentleman, for an invention for—"Improvements in propelling."<br><i>Letters Patent sealed.</i>                                                                                                                                                                |
| JONES.<br>21st February 1853.             | 437. WRIGHT JONES, of Pendleton, in the County of Lancaster, Engineer, for an invention for—"Improvements applicable to steam pipes used for warming, drying, or ventilating."<br><i>Letters Patent sealed.</i>                                                                                                                                                         |
| SAMUELS,<br>SANDS.<br>21st February 1853. | 438. SAMUEL RODGERS SAMUELS and ROBERT SANDS, both of the Town and County of the Town of Nottingham, Lace Manufacturers, for an invention for—"Improvements in looms for weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                     |
| O'LEARY.<br>21st February 1853.           | 439. JOHN O'LEARY, of Liverpool, in the County of Lancaster, Mechanic, for an invention for—"Certain improved apparatus for indicating the number of passengers entering in or upon omnibuses, and also their exit therefrom."<br><i>Provisional protection only.</i>                                                                                                   |
| RAMAGE,<br>COFFEY.<br>21st February 1853. | 440. JOSEPH RAMAGE, of Manchester, in the County of Lancaster, Gas Fitter, and THOMAS COFFEY, of the same place, Gas Fitter, for an invention for—"Certain improvements in the manufacture of chandeliers, gas brackets, and lamp frames."<br><i>Provisional protection only.</i>                                                                                       |
| MASH.<br>BAILEY.<br>21st February 1853.   | 441. JAMES MASH, of Highfield Terrace, Kentish Town, in the County of Middlesex, Consulting Engineer, and JOSEPH SHARP BAILEY, of Keighley, in the County of York, Manufacturer, for an invention for—"Improvements in weaving-machinery employed in the manufacture of textile fabrics, and in the manufacture of such fabrics."<br><i>Letters Patent sealed.</i>      |



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| PIDDING.<br>21st February 1853.                                   | 442. WILLIAM PIDDING, of the Strand, in the County of Middlesex, Gentleman, for an invention for—"Improvements in coverings for the feet of bipeds or quadrupeds."<br><i>Letters Patent sealed.</i>                                                                                                                                                      |
| FARRANT.<br>21st February 1853.                                   | 443. RICHARD FARRANT, of Pimlico, for an invention for—"An improved chimney pot."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                       |
| MILES.<br>21st February 1853.                                     | 444. EZRA MILES, of Soulbury, Bucks, for an invention for—"Improvements in railway brakes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                             |
| BELL.<br>CHRIMES.<br>21st February 1853.                          | 445. THOMAS BELL, of Bristol, in the County of Gloucester, Engineer, and RICHARD CHRIMES, of Rotherham, in the County of York, of the firm of Guest and Chrimes, Brass Founders, for an invention for—"Certain improvements in valves applicable to the receiving and discharging of water or other fluids."<br><i>Letters Patent sealed.</i>            |
| BARTON.<br>21st February 1853.                                    | 446. BENJAMIN BARTON, of Old Kent Road, in the County of Surrey, Ironmonger, for an invention for—"An improved bath, which can also be used as a life boat."<br><i>Letters Patent sealed.</i>                                                                                                                                                            |
| PEARCE.<br>21st February 1853.                                    | 447. JOHN CHARLES PEARCE, of the Bowling Iron Works, near Bradford, in the County of York, Engineer, for an invention for—"Improvements in steam boilers."<br><i>Letters Patent sealed.</i>                                                                                                                                                              |
| STIRLING.<br>21st February 1853.                                  | 448. JOHN DAVIE MORRIES STIRLING, of the Larches, near Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of wire."<br><i>Letters Patent sealed.</i>                                                                                                                                                            |
| WILKINSON.<br>21st February 1853.                                 | 449. WILLIAM WILKINSON, of the Town and County of the Town of Nottingham, Framework Knitter, for an invention for—"Improvements in the manufacture of ropes, bands, straps, and cords."<br><i>Letters Patent sealed.</i>                                                                                                                                 |
| HUDSON.<br>HUDSON.<br>22nd February 1853.                         | 450. JAMES HUDSON, of Halifax, and THOMAS BAMFORD HUDSON, of Malton, both in the County of York, for an invention for—"Improvements in the manufacture of bricks, tiles, and drain pipes or tubes."<br><i>Letters Patent sealed.</i>                                                                                                                     |
| GOUGY.<br>COMBE.<br>22nd February 1853.                           | 451. PIERRE FREDERICK GOUGY, of Castle Street, Gentleman, and DAVID COMBE, of King Street, both in the County of Middlesex, Gentleman, for an invention for—"Improvements in apparatus for skidding or stopping wheels of carriages and other vehicles."<br><i>Letters Patent sealed.</i>                                                                |
| WINIWARTER.<br>22nd February 1853.                                | 452. GEORGE WINIWARTER, of Red Lion Square, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of fire-arms."<br><i>Letters Patent sealed.</i>                                                                                                                                                            |
| COCHRANE.<br>22nd February 1853.                                  | 453. JOHN RICHARD COCHRANE, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in the manufacture or production of ornamental or figured fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                    |
| BECKETT.<br>23rd February 1853.                                   | 454. SAMUEL BECKETT, of Manchester, in the County of Lancaster, Spindle Manufacturer, for an invention for—"An improvement or improvements in mule spindles and spindles of a similar description, for spinning or twisting various fibrous substances, and in the mode of manufacturing and producing the same."<br><i>Provisional protection only.</i> |
| SMITH.<br>23rd February 1853.                                     | 455. JOHN SMITH, of Uxbridge, in the County of Middlesex, Agricultural Engineer, for an invention for—"Improvements in machinery for raising and forcing water and other fluids."<br><i>Letters Patent sealed.</i>                                                                                                                                       |
| BROOKES.<br>BLACK.<br>STEVENSON.<br>JONES.<br>23rd February 1853. | 456. EDWIN STANLEY BROOKES and JOSEPH BLACK, of Loughborough, in the County of Leicester, Hosiery, and GEORGE STEVENSON and WILLIAM JONES, also of Loughborough, in the said county of Leicester, Framework Knitters, for an invention for—"Improvements in machinery for the manufacture of looped fabrics."<br><i>Letters Patent sealed.</i>           |
| ALBRECHT.<br>23rd February 1853.                                  | 457. EDUARD ALBRECHT, of 12, Upper Fountain Place, City Road, for an invention for—"Improvements in apparatus for transmitting and reflecting light."<br><i>Provisional protection only.</i>                                                                                                                                                             |
| PLANT.<br>23rd February 1853.                                     | 458. REUBEN PLANT, of Brierly Hill, Staffordshire, for an invention for—"Improvements in safety-lamps."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                 |



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| MILLIGAN.<br>23rd February 1853.               | 459. ROBERT MILLIGAN, of Harden Mills, Bingley, in the County of York, for an invention for—"Improvements in apparatus for washing slivers of wool."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                    |
| LISTER.<br>23rd February 1853.                 | 460. SAMUEL CUNLIFFE LISTER, of Bradford, in the County of York, Manufacturer, for an invention for—"Improvements in treating soap-suds."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                               |
| WILLARD.<br>23rd February 1853.                | 461. ASA WILLARD, of Saint John, in the Province of New Brunswick, British North America, for an invention for—"Improvements in machines for manufacturing butter, to be called 'A. Willard's Butter Machine.'"<br><i>Letters Patent sealed.</i>                                                                                                                                                                         |
| ENGERT.<br>23rd February 1853.                 | 462. ADAM CYRUS ENGERT, of Mora Place, City Road, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in joints for the sticks of parasols, and other like purposes."— <i>A communication from Alexander Porecky.</i><br><i>Letters Patent sealed.</i>                                                                                                                                          |
| GREEN.<br>24th February 1853.                  | 463. JOHN GREEN, of No. 21, York Buildings, New Road, Marylebone, in the County of Middlesex, for an invention for—"The more economic, speedy, convenient, and in every respect superior system of cooking to any now in use, and which he designates 'Green's economical self-basting cooking apparatus.'"<br><i>Letters Patent sealed.</i>                                                                             |
| SPENCE.<br>24th February 1853.                 | 464. WILLIAM SPENCE, of 50, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Certain improvements in machinery for threshing and winnowing corn and other agricultural produce."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                 |
| WALMSLEY.<br>CRITCHLEY.<br>24th February 1853. | 465. HENRY WALMSLEY, of Failsworth, near Manchester, in the County of Lancaster, Silk Manufacturer, and THOMAS CRITCHLEY, of the same place, Machine Maker, for an invention for—"Improvements in machinery or apparatus for retarding or stopping railway trains, which machinery or apparatus is also applicable as a signal or communication from one part of a train to the other."<br><i>Letters Patent sealed.</i> |
| M'LELLAN.<br>24th February 1853.               | 466. PETER M'LELLAN, of Bridge of Earn, in the County of Perth, North Britain, Machine Maker, for an invention for—"Improvements in thrashing machinery."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                         |
| JOHNSON.<br>24th February 1853.                | 467. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in the treatment or manufacture of caoutchouc."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                               |
| FLUDE.<br>24th February 1853.                  | 468. CHARLES FLUDE, of the Canal Bank Distillery, Surrey Canal Bridge, Old Kent Road, for an invention for—"Improvements in the production of spirit, and in the stills and apparatus employed therein."<br><i>Provisional protection only.</i>                                                                                                                                                                          |
| DE LA RUE.<br>24th February 1853.              | 469. THOMAS DE LA RUE, of Bunhill Row, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in producing ornamental surfaces to paper and other substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                    |
| HERRMANN.<br>24th February 1853.               | 470. EMILE ADOLPHE HERRMANN, of No. 1, New Broad Street, London, Gentleman, for an invention for—"Certain improvements in machinery for manufacturing woollen cloth."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                          |
| LAWRENCE.<br>24th February 1853.               | 471. JAMES LAWRENCE, of Colnbrook, in the County of Middlesex, Brewer, for an invention for—"Improvements in the drying or preparation of malt, meal, seeds, corn, and other grain."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                    |
| JORDAN.<br>24th February 1853.                 | 472. THOMAS BROWNE JORDAN, of New Cross, in the County of Kent, Engineer, for an invention for—"Improvements in machinery for planing slate."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                           |
| PRESTON.<br>25th February 1853.                | 473. FRANCIS PRESTON, of Manchester, in the County of Lancaster, Spindle and Flyer Maker, for an invention for—"Improvements in the manufacture of certain parts of machinery to be used in preparing and spinning cotton or other fibrous materials."<br><i>Letters Patent sealed.</i>                                                                                                                                  |
| HYNAM.<br>25th February 1853.                  | 474. JOHN HYNAM, of Wilson Street, Finsbury, in the County of Middlesex, Chemical Light Manufacturer, for an invention for—"Improvements in the mode of manufacturing wax or composition tapers, and in the machinery or apparatus for that purpose."<br><i>Letters Patent sealed.</i>                                                                                                                                   |



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| PRICE.<br>25th February 1853.                         | 475. BENJAMIN PRICE, of Fieldgate Street, Whitechapel, in the County of Middlesex, furnace-builder, for an invention for—"Certain improvements in the construction of furnaces or flues of steam-boilers, coppers, and other like vessels for heating or evaporating liquids."<br><i>Letters Patent sealed.</i>                                                              |
| GRIST.<br>25th February 1853.                         | 476. JOHN GRIST, of Hoxton, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery for the manufacture of casks, barrels, and other similar vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                                        |
| SYMINGTON.<br>25th February 1853.                     | 477. WILLIAM SYMINGTON, of 41, Gracechurch Street, for an invention for—"Improvements in preserving milk and other fluids."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                 |
| DE LA FONS.<br>25th February 1853.                    | 478. JOHN PALMER DE LA FONS, of 13, Carlton Hill, St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in applying skids or drags to omnibuses."<br><i>Letters Patent sealed.</i>                                                                                                                                                                 |
| RICHARDSON.<br>25th February 1853.                    | 479. THOMAS RICHARDSON, of Newcastle-upon-Tyne, for an invention for—"Improvements in the manufacture of certain compounds of phosphoric acid."<br><i>Provisional protection only.</i>                                                                                                                                                                                       |
| NICHOLLS.<br>25th February 1853.                      | 480. HENRY MARTYN NICHOLLS, of 39, Gower Place, Euston Square, in the County of Middlesex, for an invention for—"Improvements in emission or reaction engines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                             |
| COSSUS.<br>25th February 1853.                        | 481. ANTONIO FEDELE COSSUS, of University Street, in the County of Middlesex, for an invention for—"Improvements in filters."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                               |
| TAYLOR.<br>25th February 1853.                        | 482. JOHN GEORGE TAYLOR, of King Street, Cheapside, in the City of London, Wholesale Jeweller, for an invention for—"Improvements in ornamental fastenings for dress."<br><i>Letters Patent sealed.</i>                                                                                                                                                                      |
| GOODELL.<br>25th February 1853.                       | 483. FREDERICK GOODELL, of Half Moon Street, Piccadilly, in the County of Middlesex, Gentleman, for an invention for—"An improved apparatus for the distillation of rosin oil, and for an improved method of bleaching and deodorizing the same during the process of manufacture."— <i>Partly a communication.</i><br><i>Letters Patent sealed; no specification filed.</i> |
| WILCOX.<br>26th February 1853.                        | 484. CHARLES NAPOLEON WILCOX, of Islington, in the County of Middlesex, Manufacturing Chemist, for an invention for—"Improvements in the manufacture and application of certain extracts obtained from the elder tree."<br><i>Provisional protection only.</i>                                                                                                               |
| FRÉCHIN.<br>26th February 1853.                       | 485. JEAN JOSEPH FRÉCHIN, of Bordeaux, France, and of 4, South Street, Finsbury, London, for an invention for—"Improvements in the construction of locomotive-engines."<br><i>Provisional protection only.</i>                                                                                                                                                               |
| SHAW.<br>26th February 1853.                          | 486. WILLIAM MACKENZIE SHAW, of 25, Bedford Place, Brighton, in the County of Sussex, for an invention for—"An improvement in the construction of locomotive-boilers."<br><i>Provisional protection only.</i>                                                                                                                                                                |
| BRANDEIS.<br>26th February 1853.                      | 487. JOSEPH BRANDEIS, of Great Tower Street, in the County of Middlesex, Sugar Refiner, for an invention for—"Improvements in the manufacture and refining of sugar."<br><i>Letters Patent sealed.</i>                                                                                                                                                                       |
| BLANCHARD.<br>26th February 1853.                     | 488. MARK HENRY BLANCHARD, of Blackfriars Road, in the County of Surrey, Terra Cotta Manufacturer, for an invention for—"Improvements in the manufacture of pipes of earthenware, clay, or other similar materials."<br><i>Provisional protection only.</i>                                                                                                                  |
| NEWTON.<br>26th February 1853.                        | 489. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery or apparatus applicable to wheels or axles for counting and indicating the number of rotations made thereby."— <i>A communication.</i> <i>Provisional protection only.</i>                             |
| THORNTON.<br>26th February 1853.                      | 490. EBENEZER THORNTON, of Huddersfield, Ironmonger, for an invention for—"Certain improvements in the construction and arrangements of kitchen-boilers and flues for ranges."<br><i>Provisional protection only.</i>                                                                                                                                                        |
| SINCLAIR.<br>[Lord Berriedale].<br>6th February 1853. | 491. THE HONOURABLE JAMES SINCLAIR, commonly called LORD BERRIEDALE, of 17, Hill Street, in the County of Middlesex, for an invention for—"Improvements in weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                                        |



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| <p>GRIFFITHS.<br/>26th February 1853.</p> <p>TETLEY.<br/>26th February 1853.</p> <p>TETLEY.<br/>26th February 1853.</p> <p>VARLEY.<br/>26th February 1853.</p> <p>DUNDONALD.<br/>26th February 1853.</p> <p>VON GILGENHEIMB.<br/>28th February 1853.</p> <p>MURPHY.<br/>28th February 1853.</p> <p>MERRITT.<br/>28th February 1853.</p> <p>ROBERTS.<br/>28th February 1853.</p> <p>BENTALL.<br/>28th February 1853.</p> <p>DUNCAN.<br/>28th February 1853.</p> <p>FONTAINE MOREAU.<br/>28th February 1853.</p> <p>MAJOR.<br/>28th February 1853.</p> <p>LISTER.<br/>28th February 1853.</p> <p>STEPHENSON.<br/>1st March 1853.</p> <p>LITTLEWOOD.<br/>LITTLEWOOD.<br/>1st March 1853.</p> <p>BETHELL.<br/>1st March 1853.</p> <p>DANIELL.<br/>1st March 1853.</p> | <p>492. ROBERT GRIFFITHS, of Great Ormond Street, in the County of Middlesex, for an invention for—"Improvements in propelling vessels." <i>Letters Patent sealed.</i></p> <p>493. CHARLES TETLEY, of Bradford, in the County of York, Gentleman, for an invention for—"Improvements in obtaining power by steam and air." <i>Letters Patent sealed; no specification filed.</i></p> <p>494. CHARLES TETLEY, of Bradford, in the County of York, Gentleman, for an invention for—"Improvements in the manufacture of bobbins." <i>Letters Patent sealed.</i></p> <p>495. SAMUEL VARLEY, of Wainfleet, in the County of Lincoln, Engineer, for an invention for—"Improvements in making communications between the guards and engine-drivers on railway-carriages." <i>Provisional protection only.</i></p> <p>496. ADMIRAL THE EARL OF DUNDONALD, of Belgrave Road, in the County of Middlesex, for an invention for—"Improvements in producing compositions or combinations of bituminous, resinous, and gummy matters, and thereby obtaining products useful in the arts and manufactures." <i>Letters Patent sealed.</i></p> <p>497. THEODORE BARON VON GILGENHEIMB, of Weidenau, in Silesia, for an invention for—"A new machine, with its adjuncts or other apparatus, to be used for agricultural purposes." <i>Provisional protection only.</i></p> <p>498. JAMES MURPHY, of Newport, in the County of Monmouth, Civil Engineer, for an invention for—"Improvements in trucks, waggons, or vehicles for railway purposes." <i>Letters Patent sealed.</i></p> <p>499. THOMAS EDWARD MERRITT, of Maidstone, in the County of Kent, Gentleman, for an invention for—"Improvements in railway-carriages, and in connecting and disconnecting them." <i>Provisional protection only.</i></p> <p>500. MARTYN JOHN ROBERTS, of Woodbank, Gerard's Cross, in the County of Bucks, Gentleman, for an invention for—"Improvements in the manufacture of mordants or dyeing materials, which are in part applicable to the manufacture of a polishing powder." <i>Letters Patent sealed.</i></p> <p>501. EDWARD HAMMOND BENTALL, of Heybridge, in the County of Essex, Ironfounder, for an invention for—"Improvements in harrows." <i>Letters Patent sealed.</i></p> <p>502. GEORGE DUNCAN, of Chelsea, in the County of Middlesex, Engineer, for an invention for—"Improvements in steam-boilers." <i>Letters Patent sealed.</i></p> <p>503. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"Improvements in drying cigars."—<i>A communication.</i> <i>Letters Patent sealed.</i></p> <p>504. JOSEPH MAJOR, of 10, Little Stanhope Street, in the County of Middlesex, for an invention for—"Improvements in preparing lotions, which he intends to call 'The Synovitic Lotions.'" <i>Provisional protection only.</i></p> <p>505. SAMUEL CUNLIFFE LISTER, of Manningham, n<sup>e</sup> Bradford, in the County of York, for an invention for—"Heating and making cards." <i>Letters Patent sealed.</i></p> <p>506. ROBERT STEPHENSON, junior, of Newcastle-on-Tyne, in the County of Northumberland, Engineer, for an invention for—"Improvements in locomotive-engines." <i>Provisional protection only.</i></p> <p>507. THORNTON LITTLEWOOD and CHARLES LITTLEWOOD, of Rochdale, in the County of Lancaster, Woollen Manufacturers, for an invention for—"Improvements in machinery or apparatus used in the preparation of wool, silk, flax, and mohair to be spun." <i>Letters Patent sealed.</i></p> <p>508. JOHN BETHELL, of Parliament Street, Westminster, Gentleman, for an invention for—"Improvements in preserving wood from decay." <i>Provisional protection only.</i></p> <p>509. JOSEPH CLISILD DANIELL, of Limpley Stoke, in the Parish of Bradford, in the County of Wilts, Gentleman, for an invention for—"Propelling vessels of all descriptions that float on water, that are capable of carrying steam or any other engines used for the purpose of giving power to propel vessels; also for propelling carriages on roads, to which engines, for the purpose of giving power to work them, can be applied." <i>Provisional protection only.</i></p> |
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- NEWTON.  
1st March 1853. 510. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in capstans."—*A communication.* *Letters Patent sealed.*
- CHARLESWORTH.  
1st March 1853. 511. EDWARD CHARLESWORTH, of the City of York, Gentleman, for an invention for—"Improvements in bill or letter holders." *Letters Patent sealed.*
- ROWETT.  
1st March 1853. 512. WILLIAM ROWETT, of Liverpool, in the County of Lancaster, for an invention for—"Improvement in making paddle-wheels for vessels propelled by motive-power, which is called 'The Cylinder Paddle-wheel.' " *Letters Patent sealed.*
- FLUDE.  
WATERMAN.  
1st March 1853. 513. CHARLES FLUDE, of the Canal Bank Distillery, Surrey Canal Bridge, Old Kent Road, and JAMES WATERMAN, of Park Street, Southwark, for an invention for—"Improvements in the application of heat for producing evaporation, generating steam, and for general heating purposes; and also in the economical production of combustible gases for the purpose of illumination." *Provisional protection only.*
- M<sup>c</sup>ADAMS.  
1st March 1853. 514. JOHN M<sup>c</sup>ADAMS, of the State of Massachusetts, of the United States of America, for an invention for—"Improvements in machinery or apparatus for printing on leaves of books their designations, numbers, or devices, or those of their pages; which machinery or apparatus may also be used to advantage for printing designating numbers or devices on various other articles." *Letters Patent sealed.*
- BOLTON.  
1st March 1853. 515. ROBERT LEWIN BOLTON, of Liverpool, in the County of Lancaster, Merchant, for an invention for—"A new mode of obtaining and using power by explosion of gases." *Letters Patent sealed.*
- HILL.  
2nd March 1853. 516. LAURENCE HILL, junior, of Port Glasgow, in the County of Renfrew, Ship-builder, for an invention for—"Improvements in the production of motive-power."—*A communication.* *Letters Patent sealed.*
- HALL.  
2nd March 1853. 517. CHARLES HENRY HALL, of Liverpool, in the County of Lancaster, Cook, for an invention for—"An improved apparatus for cooking by gas or vapour." *Letters Patent sealed.*
- HOLDEN.  
KNIGHT.  
BULL.  
BANFIELD.  
2nd March 1853. 518. HOWARD ASHTON HOLDEN, ALFRED KNIGHT, EDWARD BULL, and JOHN BANFIELD, all of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in communicating and giving signals between the engine-drivers and guards on railway-trains, being in connection with a mode already patented for effecting the same object." *Provisional protection only.*
- ABBOTT.  
2nd March 1853. 519. JAMES ABBOTT, of the firm of Abbott and Shaw, of Accrington, in the County of Lancaster, Cotton Spinners and Manufacturers, for an invention for—"Certain improvements in and applicable to machines for winding yarn or thread, called 'Winding-machines,' used in the manufacture of cotton and other fibrous substances." *Provisional protection only.*
- SOYER.  
2nd March 1853. 520. ALEXIS SOYER, of 59, Fenchurch Street, in the City of London, Restaurateur, for an invention for—"Improvements in preparing and preserving soups, which he denominates 'Soyer's Osmazome Food.' " *Provisional protection only.*
- SMITH.  
SMITH.  
WILLIAMS.  
2nd March 1853. 521. JOHN SMITH, of 8, Upper Fountain Place, City Road, in the County of Middlesex; WILLIAM HENRY SMITH, likewise of 8, Upper Fountain Place, City Road, in the County of Middlesex; and ALEXANDER WILLIAMS, of 15, Seething Lane, Great Tower Street, in the City of London, Manufacturers, for an invention for—"Certain improvements in metallic plates, and in producing devices or ornamental patterns thereon, and in the apparatus and machinery to be used for such purposes." *Letters Patent sealed.*
- MOORE.  
2nd March 1853. 522. EDWARD DUKE MOORE, of Ranton Abbey, near Eccleshall, in the County of Stafford, Merchant, for an invention for—"An improved mode of treating the extract of malt and hops." *Letters Patent sealed.*
- JENNINGS.  
2nd March 1853. 523. LEWIS JENNINGS, of Fludyer Street, in the City of Westminster, Mechanical Engineer, for an invention for—"An improved apparatus for regulating the speed of machinery." *Letters Patent sealed.*
- HELY.  
2nd March 1853. 524. ALFRED AUGUSTUS DE REGINALD HELY, of Cannon Row, Westminster, in the County of Middlesex, Civil Engineer, for an invention for—"An improved door or finger plate." *Provisional protection only.*



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| WADDELL.<br>2nd March 1853.    | 525. ROBERT WADDELL, of Liverpool, in the County of Lancaster, Engineer, for an invention for—"Improvements in steam-engines."<br><i>Letters Patent sealed.</i>                                                                                                                                |
| VETILLART.<br>2nd March 1853.  | 526. MARCEL VETILLART, of Le Mans, France, for an invention for—"Improvements in drying yarns."<br><i>Letters Patent sealed.</i>                                                                                                                                                               |
| MONZANI.<br>2nd March 1853.    | 527. WILLOUGHBY THEOBALD MONZANI, of 17, High Street, Camden Town, in the County of Middlesex, for an invention for—"Improvements in reaping machinery."<br><i>Provisional protection only.</i>                                                                                                |
| CLARK.<br>3rd March 1853.      | 528. WILLIAM CLARK, of High Street, Islington, in the County of Middlesex, Engineer, for an invention for—"Improvements in propelling and steering vessels, and in the apparatus used therein."<br><i>Provisional protection only.</i>                                                         |
| MURDOCH.<br>3rd March 1853.    | 529. JAMES MURDOCH, of 7, Staple Inn, in the County of Middlesex, Patent Agent, for an invention for—"An improved process for the manufacture of iodine."<br><i>A communication. Provisional protection only.</i>                                                                              |
| O'REGAN.<br>3rd March 1853.    | 530. SIMON O'REGAN, of Belfast, for an invention for—"Improvements in apparatus for consuming smoke."<br><i>Provisional protection only.</i>                                                                                                                                                   |
| HUMPAGE.<br>3rd March 1853.    | 531. CHARLES HUMPAGE, of King's Norton, in the County of Worcester, for an invention for—"The application of certain materials to the manufacture of coffin furniture."<br><i>Letters Patent sealed.</i>                                                                                       |
| BARCLAY.<br>3rd March 1853.    | 532. ROBERT BARCLAY, of Montrose, in the County of Forfar, North Britain, Merchant, for an invention for—"Improvements in rotatory engines for obtaining motive-power, and for transmitting æriform bodies and fluids."<br><i>Letters Patent sealed.</i>                                       |
| BELLFORD.<br>3rd March 1853.   | 533. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in locomotives, part of which improvements are applicable to other steam-engines."<br><i>A communication. Provisional protection only.</i> |
| BILLING.<br>3rd March 1853.    | 534. MARTIN BILLING, of 142, High Holborn, and of Charles Henry Street, Birmingham, for an invention for—"Certain improvements in metallic bedsteads."<br><i>Provisional protection only.</i>                                                                                                  |
| COLT.<br>3rd March 1853.       | 535. SAMUEL COLT, of Spring Gardens, in the County of Middlesex, Gentleman, for an invention for—"Improvements in rotating breech fire-arms."<br><i>Partly a communication. Letters Patent sealed.</i>                                                                                         |
| COLT.<br>3rd March 1853.       | 536. SAMUEL COLT, of Spring Gardens, in the County of Middlesex, Gentleman, for an invention for—"An improved construction of blower."<br><i>A communication. Letters Patent sealed; no specification filed.</i>                                                                               |
| COLT.<br>3rd March 1853.       | 537. SAMUEL COLT, of Spring Gardens, in the County of Middlesex, Gentleman, for an invention for—"Improved machinery for forging metals."<br><i>Partly a communication. Letters Patent sealed; no specification filed.</i>                                                                     |
| COLT.<br>3rd March 1853.       | 538. SAMUEL COLT, of Spring Gardens, in the County of Middlesex, Gentleman, for an invention for—"Improvements in rotating breech fire-arms."<br><i>Partly a communication. Letters Patent sealed.</i>                                                                                         |
| CHAUSSENOT.<br>3rd March 1853. | 539. BERNARD CHAUSSENOT the elder, of Paris, in the Empire of France, for an invention for—"Improvements in apparatus for aerating liquids."<br><i>Provisional protection only.</i>                                                                                                            |
| NEWTON.<br>3rd March 1853.     | 540. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in primers for fire-arms."<br><i>A communication. Letters Patent sealed.</i>                                                          |
| WRIGHT.<br>3rd March 1853.     | 541. JOHN WRIGHT, of Camberwell, in the County of Surrey, Engineer, for an invention for—"Improvements in machinery for manufacturing bags or envelopes of paper, calico, or textile fabrics."<br><i>Letters Patent sealed.</i>                                                                |
| CRICK.<br>3rd March 1853.      | 542. THOMAS CRICK, of Leicester, in the County of Leicester, Boot Manufacturer, for an invention for—"Improvements in the manufacture of boots, shoes, clogs, and slippers."<br><i>Letters Patent sealed.</i>                                                                                  |



WATERMAN.  
3rd March 1853.

543. JAMES WATERMAN, of Park Street, Southwark, in the County of Surrey, for an invention for—"Improvements in treating brewery and distillery grains for the production of food for cattle, and for extracting the bitter principle and other products from the refuse hops of breweries." *Provisional protection only.*

HINKS.  
WELLS.  
4th March 1853.

544. JOHN HINKS, of Birmingham, in the County of Warwick, and GEORGE WELLS, of Birmingham aforesaid, Manufacturers and Copartners, for an invention for—"A new or improved metallic pen." *Letters Patent sealed.*

ROSS.  
4th March 1853.

545. ROBERT CRAIB ROSS, of Edinburgh, Scotland, Engineer, for an invention for—"An improved machine or instrument for cutting files and forging metal." *Letters Patent sealed.*

ELLIOT.  
4th March 1853.

546. GEORGE ELLIOT, of St. Helens, Lancashire, Manufacturing Chemist, for an invention for—"Certain improvements in manures." *Letters Patent sealed.*

HALL.  
4th March 1853.

547. JOSEPH SPARKES HALL, of Regent Street, in the County of Middlesex, Boot Maker, for an invention for—"Improvements in cutting out parts of boots and shoes." *Letters Patent sealed.*

SANDILANDS.  
4th March 1853.

548. WILLIAM SANDILANDS, of Elm Tree Lodge, South Lambeth, in the County of Surrey, for an invention for—"An improved hopper for a pianoforte." *Provisional protection only.*

HUNTLY.  
4th March 1853.

549. SAMUEL HAZARD HUNTLY, of Marylebone Lane, in the county of Middlesex, Machinist, for an invention for—"Improvements in controlling and regulating the flow or pressure of gas." *Provisional protection only.*

McEVOY.  
4th March 1853.

550. HENRY McEVOY, of Birmingham, in the County of Warwick, for an invention for—"An improvement in covered buttons." *Letters Patent sealed.*

BOTT.  
4th March 1853.

551. GEORGE WILLIAM BOTT, of Manchester, in the County of Lancaster, Brass Founder, for an invention for—"An improvement in apparatus called 'pressers,' employed in the preparation of cotton and other fibrous materials for spinning." *Provisional protection only.*

BOYDELL.  
4th March 1853.

552. JAMES BOYDELL, of the Anchor Iron Works, Smethwick, near Birmingham, for an invention for—"Improvements in the construction of bedsteads." *Letters Patent sealed.*

STIRLING.  
4th March 1853.

553. JOHN DAVIE MORRIES STIRLING, of the Larches, near Birmingham, in the County of Warwick, for an invention for—"Improvements in manufacturing coated metal." *Provisional protection only.*

SMITH.  
5th March 1853.

554. MARY ANN SMITH, of Wimpole Street, Marylebone, in the County of Middlesex, for an invention for—"Improvements in the manufacture of toys, models, and other like articles of ornament or utility." *Letters Patent sealed.*

GEDGE.  
5th March 1853.

555. JOHN GEDGE, of No. 4, Wellington Street, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the construction of fire-arms, and in the means of loading the same."—*A communication.*

*Letters Patent sealed.*

WEATHERDON.  
DEALTRY.  
5th March 1853.

556. BALDWIN FULFORD WEATHERDON, of Chancery Lane, and CHARLES DEALTRY, Esquire, of Anneville House, Guernsey, for an invention for—"Improvements in the construction of certain floating vessels, and in the mode of propelling them." *Letters Patent sealed.*

CROSS.  
5th March 1853.

557. THOMAS WELLS CROSS, of Hunslet, in the Parish of Leeds, in the County of York, Pail Manufacturer, for an invention for—"A portable fire-engine." *Letters Patent sealed.*

TODD.  
5th March 1853.

558. WILLIAM TODD, of Rochdale, in the County of Lancaster, Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*

MAUDSLAY.  
5th March 1853.

559. JOSEPH MAUDSLAY, of the firm of Maudslay, Sons, and Field, of Lambeth, in the County of Surrey, Engineers, for an invention for—"Improvements in screw propellers for ships and other vessels." *Provisional protection only.*

BROOMAN.  
5th March 1853.

560. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in machinery for making pipes and tubes."—*A communication.*

*Letters Patent sealed.*



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| HIRST.<br>MITCHELL.<br>5th March 1853.               | 561. JOHN HIRST, junior, of Dobcross, in the County of York, Woollen Manufacturer, and WILLIAM MITCHELL, of Crosland Moor, near Huddersfield, in the County of York, Millwright, for an invention for—"Improvements in stretching fabrics."<br><i>Provisional protection only.</i>                                                         |
| BARTER.<br>7th March 1853.                           | 562. RICHARD BARTER, of Saint Ann's Hill, Blarney, County Cork, M. D., for an invention for—"Improvements in cutting roots and other vegetable substances."<br><i>Letters Patent sealed.</i>                                                                                                                                               |
| BARRINGTON.<br>7th March 1853.                       | 563. WILLIAM BARRINGTON, of Mallow, in the County of Cork, Civil Engineer, for an invention for—"Improvements in life-boats."<br><i>Letters Patent sealed.</i>                                                                                                                                                                             |
| LYNDE.<br>7th March 1853.                            | 564. JAMES GASCOIGNE LYNDE, junior, of No. 37, Great George Street, in the City and Liberty of Westminster, Civil Engineer, for an invention for—"A pressure governor, or self-acting apparatus for regulating the flow of water."<br><i>Provisional protection only.</i>                                                                  |
| MAPPLE.<br>7th March 1853.                           | 565. HENRY MAPPLE, Electric Engineer, of Child's Hill, in the Parish of Hendon, in the County of Middlesex, for an invention for—"Certain improvements in electric telegraphs, and apparatus connected therewith."<br><i>Provisional protection only.</i>                                                                                  |
| CALLES.<br>7th March 1853.                           | 566. ANDRÉ CALLES, of 4, South Street, Finsbury, in the County of Middlesex, for an invention for—"Certain improvements in manufacturing typographic characters."<br><i>Provisional protection only.</i>                                                                                                                                   |
| DE BUSSAC.<br>7th March 1853.                        | 567. JACQUES FRANÇOIS DUPONT DE BUSSAC, of London, 19, Royal Avenue Terrace, King's Road, Chelsea, in the County of Middlesex, for an invention for—"Certain improvements in paving and covering places."<br><i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                      |
| SIMON.<br>HUMPHREYS.<br>7th March 1853.              | 568. GODFREY SIMON and THOMAS HUMPHREYS, of the State of Pennsylvania, in the United States of America, for an invention for—"Improvements in carriages."<br><i>Letters Patent sealed.</i>                                                                                                                                                 |
| MATTHEWS.<br>7th March 1853.                         | 569. WILLIAM MATTHEWS, of No. 5, Saint James Street, in the Town and County of the Town of Nottingham, Pianoforte Manufacturer and Musician, for an invention for—"Improvements in pianofortes."<br><i>Letters Patent sealed.</i>                                                                                                          |
| WATSON.<br>7th March 1853.                           | 570. JOSEPH JOHN WILLIAM WATSON, of Old Kent Road, in the County of Surrey, for an invention for—"Improvements in illuminating apparatus and in the production of light."<br><i>Letters Patent sealed.</i>                                                                                                                                 |
| DODDS.<br>7th March 1853.                            | 571. THOMAS WETHERBURN DODDS, of Holmes' Engine and Railway Works, Rotherham, in the County of York, Engineer, for an invention for—"Improvements in the treatment and manufacture of iron and steel."<br><i>Letters Patent sealed.</i>                                                                                                    |
| PARKER.<br>7th March 1853.                           | 572. CHARLES PARKER, of Dundee, in the County of Forfar, North Britain, Manufacturer, for an invention for—"Improvements in weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                                     |
| LITTLE.<br>7th March 1853.                           | 573. JOHN LITTLE, of Glasgow, in the County of Lanark, North Britain, Iron-monger, for an invention for—"Improvements in cooking apparatus."<br><i>Provisional protection only.</i>                                                                                                                                                        |
| DODDS.<br>7th March 1853.                            | 574. THOMAS WEATHERBURN DODDS, of Holmes' Engine and Railway Works, Rotherham, in the County of York, Engineer, for an invention for—"Improvements in the manufacture of wheels and axles."<br><i>Letters Patent sealed.</i>                                                                                                               |
| CAROSIO.<br>7th March 1853.                          | 575. AUGUSTINO CAROSIO, of Genoa, now of Montague Street, in the County of Middlesex, Doctor of Medicine, for an invention for—"A hydro-dynamic battery, or new or improved electro-magnetic apparatus, which with its products are applicable to the production of motive-power, of light, and of heat."<br><i>Letters Patent sealed.</i> |
| CHATWIN.<br>M <sup>c</sup> LEISH.<br>7th March 1853. | 576. THOMAS TURNER CHATWIN, of Birmingham, in the County of Warwick, Manufacturer, and ROBERT M <sup>c</sup> LEISH, of the same place, Manufacturer, for an invention of "Improvements in rollers, rods, or poles for window blinds, curtains, maps, and such like purposes."<br><i>Provisional protection only.</i>                       |
| HALL.<br>CROFTS.<br>7th March 1853.                  | 577. JOHN HALL, of Birmingham, in the County of Warwick, Gunmaker, and JOHN CROFTS, of the same place, Foreman, for an invention for—"An improvement or improvements in revolving or repeating fire-arms."<br><i>Complete specification ; Letters Patent sealed.</i>                                                                       |



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| <p>FINLAYSON.<br/>8th March 1853.</p> <p>PERRY.<br/>8th March 1853.</p> <p>DRYLAND.<br/>8th March 1853.</p> <p>PINEL.<br/>8th March 1853.</p> <p>SCHMITT.<br/>8th March 1853.</p> <p>BAKER.<br/>8th March 1853.</p> <p>LISTER.<br/>8th March 1853.</p> <p>WRIGHT.<br/>8th March 1853.</p> <p>SAMUELSON.<br/>8th March 1853.</p> <p>EMERSON.<br/>8th March 1853.</p> <p>VEEVERS.<br/>ASHWORTH.<br/>8th March 1853.</p> <p>GLOVER.<br/>8th March 1853.</p> <p>COLQUHOUN.<br/>8th March 1853.</p> <p>MACCARTHY.<br/>8th March 1853.</p> <p>KIMBERLEY.<br/>9th March 1853.</p> <p>HOGG.<br/>9th March 1853.</p> | <p>578. CHARLES FINLAYSON, of Manchester, in the County of Lancas'er, Engineer, for an invention for—"Improvements in apparatus for converting reciprocating into rotatory motion, for steam-engines and for other purposes."<br/><i>Provisional protection only.</i></p> <p>579. THOMAS JAMES PERRY, of the Lozells, in the parish of Aston juxta Birmingham, in the County of Warwick, Engine Turner, for an invention for—"A new or improved method of constructing cornice-poles and picture and curtain rods, and other rods from which articles are suspended."<br/><i>Letters Patent sealed.</i></p> <p>580. THOMAS DRYLAND, of 81, Bishopsgate Street Within, in the City of London, Ironmonger, for an invention for—"An improved portable iron stove."<br/><i>Provisional protection only.</i></p> <p>581. JACQUES FRANCISQUE PINEL, of Pall Mall, in the County of Middlesex, Agricultural Chemist, for an invention for—"Improvements in deodorizing sewage water and cesspools, and in manufacturing manures."<br/><i>Letters Patent sealed.</i></p> <p>582. NICOLAS SCHMITT, of Goffontaine, near Sarrebrück, in the Kingdom of Prussia, Manufacturer, for an invention for—"Improvements in cleansing and separating ores and coal."<br/><i>Letters Patent sealed.</i></p> <p>583. CHARLES BAKER, of Southampton, in the County of Hants, Merchant, for an invention for—"Improvements in moulds for the manufacture of bricks."<br/><i>Letters Patent sealed.</i></p> <p>584. SAMUEL CUNLIFFE LISTER, of Bradford, in the County of York, Manufacturer, for an invention for—"Improvements in machinery used in washing wool."<br/><i>Letters Patent sealed.</i></p> <p>585. JOHN WRIGHT, of Camberwell, in the County of Surrey, Engineer, for an invention for—"Improvements in the construction of bedsteads and other frames."<br/><i>Letters Patent sealed.</i></p> <p>586. ALEXANDER SAMUELSON, of Hull, in the County of York, for an invention for—"Improvements in the manufacture of bricks and tiles."<br/><i>Letters Patent sealed.</i></p> <p>587. FREDERICK WILLIAM EMERSON, of the Trereiffe Chemical Works, Penzance, for an invention for—"Improvements in obtaining tin from ores."<br/><i>Letters Patent sealed.</i></p> <p>588. JAMES VEEVERS, of Littleborough, in the County of Lancaster, Cotton Spinner, and HENRY ASHWORTH, of the same place, Manager, for an invention for—"Certain improvements in machinery or apparatus to be employed in the preparing of cotton and other fibrous materials for spinning."<br/><i>Letters Patent sealed.</i></p> <p>589. THOMAS GLOVER, of Woodstock, in the County of Oxford, for an invention for—"A certain improvement in the construction of buttons, and in the mode of applying the same to gloves and other articles of dress."<br/><i>Provisional protection only.</i></p> <p>590. JOHN COLQUHOUN, of Paisley, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in bleaching or sulphuring silk, woollen, cotton, and other woven fabrics and yarns."<br/><i>Provisional protection only.</i></p> <p>591. JOHN JAMES ALEXANDER MACCARTHY, of No. 36, Howland Street, St. Pancras, Gentleman, for an invention for—"Improvements in gunnery and projectiles (with pouch for the latter), which are adapted for muskets, rifles, pistols, and heavy cannon for fieldpieces or forts, batteries, ships of war, and other vessels."<br/><i>Letters Patent sealed.</i></p> <p>592. JAMES KIMBERLEY, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved gas stove."<br/><i>Letters Patent sealed.</i></p> <p>593. JAMES HOGG, junior, of Nicolson Street, Edinburgh, in the County of Edinburgh, Publisher, for an invention of "Certain improvements in machinery or apparatus for cutting paper and other substances."<br/><i>Complete specification ; Letters Patent sealed.</i></p> |
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| BLACKWELL.<br>9th March 1853.            | 594. SAMUEL BLACKWELL, of Oxford Street, in the county of Middlesex, Saddler and Harness Manufacturer, for an invention for—"An improved strap or band for connecting together certain parts of harness and saddlery; applicable also to other purposes where straps or bands are used."<br><i>Letters Patent sealed.</i>                                                 |
| BLACKWELL.<br>9th March 1853.            | 595. SAMUEL BLACKWELL, of Oxford Street, in the county of Middlesex, Saddler and Harness Manufacturer, for an invention for—"Improvements in saddlery and harness."<br><i>Letters Patent sealed.</i>                                                                                                                                                                      |
| VALTAT.<br>ROUILLÉ.<br>9th March 1853.   | 596. FRANÇOIS VALTAT and FRANÇOIS MARIE ROUILLÉ, of Rue Rambuteau, Paris, France, Manufacturers, and of 4, South Street, Finsbury, London, for an invention for—"Improvements in the construction of the combs of looms for weaving."<br><i>Letters Patent sealed.</i>                                                                                                    |
| SHUTTLEWORTH.<br>9th March 1853.         | 597. JOSEPH SHUTTLEWORTH, of the Stamp End Iron Works, in the Town and County of Lincoln, Agricultural Engineer, for an invention for—"Improvements in appendages to portable machines for thrashing, shaking, and winnowing corn."<br><i>Letters Patent sealed; no specification filed.</i>                                                                              |
| PIDDING.<br>9th March 1853.              | 598. WILLIAM PIDDING, of the Strand, in the County of Middlesex, Gentleman, for an invention for—"Improvements in treating sheets of caoutchouc or gutta-percha so as to render the same fit for ornamental coverings."<br><i>Letters Patent sealed; title as amended on second reference.</i>                                                                            |
| CHAMBERS.<br>9th March 1853.             | 599. GEORGE CHAMBERS, of Russia Row, Cheapside, in the City of London, Merchant, for an invention for—"Improved means of gathering cinders and depositing ashes under fire-grates, securing economy in fuel and cleanliness of appearance."<br><i>Letters Patent sealed.</i>                                                                                              |
| NASH.<br>9th March 1853.                 | 600. THEOPHILUS JOHN NASH, of 202, High Holborn, in the County of Middlesex, for an invention for—"Improvements in churns."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                              |
| COLLIER.<br>9th March 1853.              | 601. GEORGE COLLIER, of Halifax, in the County of York, Mechanic, for an invention for—"Improvements in the manufacture of carpets and other fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| STAPLEY.<br>9th March 1853.              | 602. EDWARD MAITLAND STAPLEY, of Lawrence Lane, in the City of London, for an invention for—"Improvements in machinery for breaking and dressing flax and other fibrous materials."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                             |
| RANSFORD.<br>9th March 1853.             | 603. HENRY RANSFORD, of Chelsea, in the County of Middlesex, Gentleman, for an invention of "Improvements in the manufacture of starch."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                 |
| HOLSKAMP.<br>9th March 1853.             | 604. WILLIAM AUGUST HOLSKAMP, of No. 58, Ossulston Street, Somers Town, in the parish of Saint Pancras, in the County of Middlesex, for an invention for—"An improved castor for legs of furniture and other purposes."<br><i>Provisional protection only.</i>                                                                                                            |
| COLLIER.<br>THORNTON.<br>9th March 1853. | 605. GEORGE COLLIER, of Halifax, in the County of York, Engineer, and SAMUEL THORNTON, of the same place, Machinist, for an invention for—"Improvements in spinning, roving, doubling, and twisting cotton, worsted, flax, and other fibrous materials."<br><i>Letters Patent sealed; no specification filed.</i>                                                         |
| CAMPIN.<br>9th March 1853.               | 606. FREDERICK WILLIAM CAMPIN, of 156, Strand, in the County of Middlesex, Patent Agent, for an invention for—"An instrument for measuring the steerage-way of vessels and the rapidity of currents of water and air; applicable to ventilating ships and railway-carriages."— <i>A communication from Messrs. Owerduyn and Droinet.</i><br><i>Letters Patent sealed.</i> |
| WALMSLEY.<br>10th March 1853.            | 607. JAMES WALMSLEY, of Scout, Newchurch, near Manchester, in the County of Lancaster, Woollen Printer, for an invention for—"Improved machinery and arrangements for block-printing."<br><i>Letters Patent sealed.</i>                                                                                                                                                   |
| POWIS.<br>JAMES.<br>10th March 1853.     | 608. JOHN POWIS and JABUS STANLEY JAMES, both of Watling Street, in the City of London, Wholesale Ironmongers, for an invention for—"Improvements in machinery for slotting, tenoning, mortising, grooving, drilling, boring, and vertical planing."<br><i>Letters Patent sealed.</i>                                                                                     |
| BELLHOUSE.<br>10th March 1853.           | 609. EDWARD TAYLOR BELLHOUSE, of the firm of "E. T. Bellhouse & Co.," of Manchester, in the County of Lancaster, Engineers, for an invention for—"Improvements in iron structures."<br><i>Letters Patent sealed.</i>                                                                                                                                                      |



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| <p>DODGSON.<br/>10th March 1853.</p> <p>COLLIER.<br/>10th March 1853.</p> <p>COCHRANE.<br/>COCHRANE.<br/>10th March 1853.</p> <p>DUMARCHEY.<br/>10th March 1853.</p> <p>STEVENS.<br/>10th March 1853.</p> <p>MYERS.<br/>10th March 1853.</p> <p>PRESTON.<br/>11th March 1853.</p> <p>SUMMERS.<br/>11th March 1853.</p> <p>ALEXANDRE.<br/>11th March 1853.</p> <p>POOLE.<br/>11th March 1853.</p> <p>GILBY.<br/>12th March 1853.</p> <p>MUIR.<br/>12th March 1853.</p> <p>FONTAINE MOREAU.<br/>12th March 1853.</p> <p>HEATHER.<br/>12th March 1853.</p> <p>BELLFORD.<br/>12th March 1853.</p> <p>MILLON.<br/>MOUREN.<br/>12th March 1853.</p> <p>EVANS.<br/>12th March 1853.</p> <p>MICHIELS.<br/>12th March 1853.</p> | <p>610. THOMAS BUTLER DODGSON, of Upper Clapton, in the County of Middlesex, Gentleman, for an invention for—"Improvements in roads or ways, pavements, and footpaths generally."<br/><i>Letters Patent sealed.</i></p> <p>611. GEORGE COLLIER, of Halifax, in the County of York, Engineer, for an invention for—"Improvements in machinery or apparatus used in weaving."<br/><i>Letters Patent sealed.</i></p> <p>612. THE HONOURABLE WILLIAM ERSKINE COCHRANE, of Albany Street, Regent's Park, in the County of Middlesex, and WILLIAM MARSHALL COCHRANE, of Kingston, in the County of Surrey, Esquire, for an invention for—"Improvements in girths or pads for retaining saddles in their places."<br/><i>Letters Patent sealed.</i></p> <p>613. DUMARCHEY (FRANÇOIS FRÉDÉRIC), Contractor, of Paris, in the French empire, for an invention for—"Certain improvements in making roads and ways."<br/><i>Provisional protection only.</i></p> <p>614. JAMES STEVENS, of Darlington Works, Southwark Bridge Road, in the County of Surrey, for an invention for—"Improvements in apparatus for facilitating communications between the guard and engine-man of railway-trains."<br/><i>Provisional protection only.</i></p> <p>615. EMANUEL MYERS, of Ramsgate, in the County of Kent, Gentleman, for an invention for—"Improvements in preventing railway engines and carriages running off the rails."<br/><i>Provisional protection only.</i></p> <p>616. FRANCIS PRESTON, of Manchester, in the County of Lancaster, Spindle and Flyer Maker, for an invention for—"Improvements in the manufacture of bobbins and spools."<br/><i>Letters Patent sealed.</i></p> <p>617. JAMES SUMMERS, of the firm of James and Joseph Summers, of West Cowes, in the Isle of Wight, in the County of Southampton, Sail Maker, for an invention for—"Improvements in certain kinds of sails."<br/><i>Letters Patent sealed.</i></p> <p>618. EDOUARD ALEXANDRE, of Paris, in the empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"A new mode of advertising."<br/><i>Provisional protection not granted.</i></p> <p>619. MOSES POOLE, of Avenue Road, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in apparatus for serving oysters and other shell-fish."—<i>A communication.</i><br/><i>Letters Patent sealed.</i></p> <p>620. JOHN GILBY, of Beverley, in the county of York, Esquire, for an invention for—"Improvements in fire-arms."<br/><i>Letters Patent sealed.</i></p> <p>621. WILLIAM MUIR, of the Britannia Works, Manchester, in the County of Lancaster, Engineer and Machinist, for an invention for—"Improvements in machinery or apparatus for grinding edge-tools and other articles."<br/><i>Letters Patent sealed.</i></p> <p>622. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of No. 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent Agent, for an invention for—"A new or improved apparatus for filtering liquids."—<i>A communication.</i><br/><i>Letters Patent sealed.</i></p> <p>623. JOHN FRY HEATHER, M.A., Mathematical Master at the Royal Military Academy, Woolwich, in the County of Kent, for an invention for—"An equitable gas-weighing meter."<br/><i>Provisional protection only.</i></p> <p>624. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, (City), London, Patent Agent, for an invention for—"Improvements in machinery for cutting standing crops and gathering the same into sheaves or bundles."—<i>A communication.</i><br/><i>Letters Patent sealed.</i></p> <p>625. MILLON (NICOLAS AUGUSTE EUGÈNE) and MOUREN (LEOPOLD), of Algiers, Africa, for an invention of "Certain improvements in the treatment of corn and other grains, and more especially in all that concerns washing, drying, grinding, curing, and preserving them."<br/><i>Letters Patent sealed.</i></p> <p>626. THOMAS EVANS the younger, of 18, Tooley Street, Southwark, in the County of Surrey, Corn Factor, for an invention for—"Certain improvement in the construction of steam-boilers."<br/><i>Letters Patent sealed.</i></p> <p>627. GEORGE MICHIELS, of Holywell Street, Westminster, for an invention for—"Improvements in obtaining oxygen for manufacturing purposes."<br/><i>Letters Patent sealed.</i></p> |
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| HUNT.<br>12th March 1853.                                    | 628. THOMAS HUNT, of Leman Street, Goodman's Fields, in the County of Middlesex, for an invention for—"Improvements in the construction of sights for fire-arms."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                             |
| RHODES.<br>12th March 1853.                                  | 629. THOMAS RHODES, of Regent Works, Leeds, in the County of York, for an invention for—"Improvements in the manufacture of manure."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                          |
| WITTY.<br>12th March 1853.                                   | 630. ROBERT CHRISTOPHER WITTY, of 1, Portland Place, Wandsworth Road, in the County of Surrey, Engineer, for an invention for—"Improvements in the manufacture of gas."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                       |
| MURDOCH.<br>12th March 1853.                                 | 631. JAMES MURDOCH, of 7, Staple Inn, in the County of Middlesex, Patent Agent, for an invention for—"An improved construction of portable voltaic batteries."<br>— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                                   |
| QUINTON.<br>QUINTON.<br>QUINTON.<br>14th March 1853.         | 632. WILLIAM QUINTON, of Birmingham, in the County of Warwick, Manufacturer, and BENJAMIN QUINTON, of Birmingham aforesaid, Manufacturer, and JOHN QUINTON, of Birmingham aforesaid, Manufacturer, for an invention for—"Improvements in the construction and manufacture of measuring rules."<br><i>Provisional protection only.</i>                                                                                          |
| LORD HOWARD DE<br>WALDEN AND<br>SEAFORD.<br>14th March 1853. | 633. THE RIGHT HONOURABLE CHARLES AUGUSTUS LORD HOWARD DE WALDEN AND SEAFORD, G.C.B., Her Britannic Majesty's Envoy Extraordinary and Minister Plenipotentiary at the Court of Belgium, for an invention for—"Whitening and cleansing sugar by the application of steam and hot air in a centrifugal sugar machine."<br>— <i>A communication from Victor Van Goethem, of Bruxelles.</i><br><i>Provisional protection only.</i> |
| STAITE.<br>14th March 1853.                                  | 634. WILLIAM EDWARDS STAITE, of Manchester, in the County of Lancaster, Gentleman, for an invention for—"Improvements in apparatus for producing and applying current electricity, parts of which apparatus are applicable for obtaining and treating certain chemical products resulting from electrolytic action."<br><i>Letters Patent sealed.</i>                                                                          |
| O'LEARY.<br>14th March 1853.                                 | 635. JOHN O'LEARY, of Liverpool, in the County of Lancaster, Mechanic, for an invention for—"Improvements in chests for the use of emigrants, whereby they are also made applicable to other purposes."<br><i>Provisional protection only.</i>                                                                                                                                                                                 |
| BURTON.<br>BURTON.<br>14th March 1853.                       | 636. BENNETT ALFRED BURTON and HENRY MORTIMER BURTON, of John's Place, Holland Street, Blackfriars Road, in the County of Surrey, Engineers, for an invention for—"Improvements in the mode of manufacturing casks, vats, and other like vessels, and in the machinery or apparatus to be employed for such purpose."<br><i>Provisional protection only.</i>                                                                   |
| JOHNSON.<br>14th March 1853.                                 | 637. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the application of porcelain and similar materials to ornamenting purposes."<br>— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                             |
| JOHNSON.<br>14th March 1853.                                 | 638. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in dyeing."<br>— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                                                                                                 |
| SCOTT.<br>14th March 1853.                                   | 639. JOHN SCOTT, junior, of Greenock, in the County of Renfrew, North Britain, Engineer, for an invention for—"Improvements in the treatment or manufacture of animal charcoal."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                              |
| STEVENSON.<br>14th March 1853.                               | 640. WILLIAM STEVENSON, of Johnstone, in the County of Renfrew, North Britain, Manager, for an invention for—"Improvements in the treatment or manufacture of textile materials."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                             |
| BASHALL.<br>14th March 1853.                                 | 641. WILLIAM BASHALL, junr., of Preston, in the County of Lancaster, Cotton Spinner, for an invention for—"Improvements in dressing, sizeing, and tape machines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                             |
| MORGAN.<br>15th March 1853.                                  | 642. WILLIAM MORGAN, of No. 2, Spencer Street, Shoreditch, in the County of Middlesex, for an invention for—"The manufacture of a portable double-action folding chair."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                      |
| HERAPATH.<br>15th March 1853.                                | 643. THORNTON JOHN HERAPATH, of the City and County of Bristol, Analytical Chemist, for an invention for—"Improvements in treating sewage, and in manufacturing manure therefrom."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                            |



L'HERNAULT.  
RICHARD.  
15th March 1853.

644. PIERRE SIGISBERT L'HERNAULT and JEAN RICHARD, of Paris, in the empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"An improved means for unhooking horses, and impeding or stopping vehicles on common roads." *Provisional protection only.*

DURAND.  
15th March 1853.

645. FRANÇOIS DURAND, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"An improved kind of loom." *Letters Patent sealed.*

MAUDSLAY.  
15th March 1853.

646. JOSEPH MAUDSLAY, of the firm of Maudslay, Sons, and Field, of Lambeth, in the County of Surrey, Engineers, for an invention for—"Improvements in screw propellers for ships and other vessels." *Letters Patent sealed.*

PARSONS.  
15th March 1853.

647. PERCEVAL MOSES PARSONS, of Duke Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in working the valves of steam engines." *Provisional protection only.*

SABEL.  
15th March 1853.

648. EPHRAIM SABEL, of 25, Broad Street Buildings, in the City of London, Merchant, for an invention for—"Improvements in the construction of looking-glasses, and in the apparatus connected therewith."—*A communication. Letters Patent sealed.*

KNIGHT.  
HERITAGE.  
16th March 1853.

649. GEORGE KNIGHT, of Birmingham, in the County of Warwick, Gentleman, and JOHN HERITAGE, of the Borough of Warwick, in the County of Warwick, Builder, for an invention for—"An improvement or improvements in drying bricks and such other articles as are or may be made of clay." *Letters Patent sealed.*

HIELAKKER.  
16th March 1853.

650. JOHN VANDEN HIELAKKER, of Brussels, in the Kingdom of Belgium, Mechanical Engineer, for an invention for—"An improved eccentric engine, applicable to the purposes of general navigation." *Complete specification; Letters Patent sealed.*

WILD.  
16th March 1853.

651. CHARLES HEARD WILD, of Saint Martin's Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in fishes and fish-joints for connecting the rails of railways." *Letters Patent sealed.*

MALINS.  
16th March 1853.

652. WILLIAM MALINS, of Savile Row, in the County of Middlesex, Gentleman, for an invention for—"Certain improvements in the application of atmospheric propulsion upon railways." *Letters Patent sealed.*

FANSHAWE.  
16th March 1853.

653. HENRY RICHARDSON FANSHAWE, of Arthur Street, Old Kent Road, in the County of Surrey, Chemist and Manufacturing Agent, for an invention for—"Improvements in fire-arms." *Letters Patent sealed.*

COLT.  
16th March 1853.

654. SAMUEL COLT, of Spring Gardens, in the County of Middlesex, Gentleman, for an invention for—"Improved apparatus for heating and annealing metals." *Letters Patent sealed.*

OLIVER.  
16th March 1853.

655. JOHN OLIVER, of the Borough of Newcastle-upon-Tyne, Manufacturing Chymist, for an invention for—"Improvements in the manufacture of a red pigment commonly called 'Venetian red.'" *Letters Patent sealed.*

NICKELS.  
16th March 1853.

656. EDWARD NICKELS, of the Albany Road, Camberwell, in the County of Surrey, Gentleman, for an invention for—"Improvements in preparing lubricating matters."—*A communication. Letters Patent sealed.*

LIVESEY.  
17th March 1853.

657. JOHN LIVESEY, of New Lenton, in the County of Nottingham, Draughtsman, for an invention for—"Improvements in pile and looped fabrics, in cutting and finishing such fabrics, and in the machinery employed therein." *Letters Patent sealed.*

ASHENHURST.  
17th March 1853.

658. JOHN TALBOT ASHENHURST, of Upper John Street, Fitzroy Square, in the County of Middlesex, Pianoforte Maker, for an invention for—"Improvements in pianofortes." *Letters Patent sealed.*

BLINKHORN.  
17th March 1853.

659. WILLIAM BLINKHORN, of Sutton, in the County of Lancaster, Glass Manufacturer, for an invention for—"Certain improvements in the construction of furnaces and annealing-kilns employed in the manufacture of glass." *Letters Patent sealed.*

JOHNSON.  
17th March 1853.

660. GEORGE JOHNSON, of Stockport, in the County of Chester, Doctor of Medicine, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*

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| ROSCOW.<br>BULLOUGH.<br>17th March 1853.                | 661. JAMES ROSCOW, of Bolton-le-Moors, in the County of Lancaster, Millwright, and ROBERT BULLOUGH, of the same place, Millwright, for an invention for—"Certain improvements in machinery or apparatus for raising water and other fluids."<br><i>Provisional protection only.</i>                                     |
| BOTTOMLEY.<br>17th March 1853.                          | 662. JOHN BOTTOMLEY, of Bradford, in the County of York, Manufacturer, for an invention for—"Improvements in the manufacture of figured or ornamented, piled or plushed fabrics."<br><i>Letters Patent sealed.</i>                                                                                                      |
| PETERS.<br>18th March 1853.                             | 663. RICHARD PETERS, of Southwark, in the County of Surrey, Engineer, for an invention for—"An improved machine for mortising and tenoning, drilling and boring."<br><i>Provisional protection only.</i>                                                                                                                |
| TWEEDALE.<br>TWEEDALE.<br>TWEEDALE.<br>18th March 1853. | 664. JAMES TWEEDALE, ABRAHAM ALFRED TWEEDALE, and SAMUEL TWEEDALE, all of Clegg Hall, Rochdale, in the County of Lancaster, Cotton Spinners, for an invention for—"Certain improvements in machinery or apparatus for spinning cotton and other fibrous materials."<br><i>Provisional protection only.</i>              |
| CAMERON.<br>18th March 1853.                            | 665. PAUL CAMERON, of Glasgow, in the County of Lanark, North Britain, Nautical Instrument Maker, for an invention for—"Improvements in marine and surveying compasses."<br><i>Letters Patent sealed.</i>                                                                                                               |
| WESTLY.<br>18th March 1853.                             | 666. WILLIAM KING WESTLY, of Leeds, in the County of York, Flax Machinist, for an invention for—"An improved comb or gill for heckling, drawing, roving, and otherwise preparing to be spun, hemp, flax, tow, silk, wool, and other fibrous substances."<br><i>Letters Patent sealed.</i>                               |
| JOHNSON.<br>18th March 1853.                            | 667. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in steam-engines."<br><i>A communication. Letters Patent sealed.</i>                                                                                     |
| BAXTER.<br>18th March 1853.                             | 668. MALCOLM BAXTER, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in steam-engines and pressure regulating valves."<br><i>Letters Patent sealed.</i>                                                                                                                |
| BROOMAN.<br>18th March 1853.                            | 669. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"An improved machine for weighing or measuring and packing spices, drugs, coffee, and like matters."<br><i>A communication. Letters Patent sealed.</i> |
| BELLFORD.<br>18th March 1853.                           | 670. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in power-loom."<br><i>A communication. Letters Patent sealed.</i>                                                                                                   |
| HASKETT.<br>18th March 1853.                            | 671. JOHN HASKETT, of 52, Wigmore Street, Cavendish Square, in the County of Middlesex, for an invention for—"Improvements in grinding-stones and whet-stones."<br><i>A communication. Letters Patent sealed.</i>                                                                                                       |
| LUCAS.<br>18th March 1853.                              | 672. GEORGE ROCK LUCAS, of Dronfield, near Sheffield, in the County of Derby, for an invention for—"Improvements in the method of raising water and other materials from mines."<br><i>Letters Patent sealed.</i>                                                                                                       |
| HARRATT.<br>18th March 1853.                            | 673. CHARLES HARRATT, of 2, Royal Exchange Buildings, in the City of London, for an invention for—"Improvements in strengthening the masts of ships and vessels."<br><i>Letters Patent sealed.</i>                                                                                                                      |
| CHRISTIAN.<br>18th March 1853.                          | 674. ROBERT OATES CHRISTIAN, Engineer, of Havre, in the French Empire, for an invention for—"Certain improvements in bed hangers for ships carrying emigrant passengers, and in the manner of manufacturing them."<br><i>Provisional protection only.</i>                                                               |
| CHRISTIAN.<br>18th March 1853.                          | 675. ROBERT OATES CHRISTIAN, Engineer, of Havre, in the French Empire, for an invention for—"Certain improvements in ventilating."<br><i>Provisional protection only.</i>                                                                                                                                               |
| BANKS.<br>18th March 1853.                              | 676. ALFRED WARN BANKS, of 42, Newgate Street, in the City of London, for an invention for—"Improvements in the manufacture of life-belts."<br><i>Provisional protection only.</i>                                                                                                                                      |
| ROSS.<br>18th March 1853.                               | 677. GEORGE ROSS, of Hatton Garden, in the City of London, Merchant, for an invention for—"An improved manufacture of lubricating oil, and a mode or modes of applying such oil to the purposes of lubrication."<br><i>A communication. Letters Patent sealed.</i>                                                      |



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| <p>MACKAY.<br/>18th March 1853.</p> <p>TENNENT.<br/>18th March 1853.</p> <p>ELDRIDGE.<br/>19th March 1853.</p> <p>HALEY.<br/>19th March 1853.</p> <p>BOUSQUET.<br/>19th March 1853.</p> <p>DALTON.<br/>19th March 1853.</p> <p>JOHNSON.<br/>19th March 1853.</p> <p>RADCLIFFE.<br/>WHITEHEAD.<br/>19th March 1853.</p> <p>NEWTON.<br/>19th March 1853.</p> <p>FRASER.<br/>21st March 1853.</p> <p>COLLINS.<br/>21st March 1853.</p> <p>SYKES.<br/>21st March 1853.</p> <p>POOLE.<br/>21st March 1853.</p> <p>DURNERIN.<br/>21st March 1853.</p> <p>POOLE.<br/>21st March 1853.</p> <p>TAYLOR.<br/>21st March 1853.</p> <p>BARSHAM.<br/>21st March 1853.</p> | <p>678. GEORGE MACKAY, of Buckingham Street, Strand, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of iron."—<i>A communication.</i> <i>Letters Patent sealed.</i></p> <p>679. ROBERT BOWMAN TENNENT, of Gracechurch Street, in the City of London, Merchant, for an invention for—"An improvement in the machinery employed for pulping coffee."—<i>A communication.</i> <i>Provisional protection only.</i></p> <p>680. JOHN ELDRIDGE, of No. 9, Stanley Street, Pimlico, in the Parish of Saint George, in the County of Middlesex, Ironmonger, for an invention for—"Washing woollen, linen, cotton, silken, hempen, skin, and flaxen materials and substances, and called 'The Rotary Washing machine.'"<br/><i>Letters Patent sealed.</i></p> <p>681. JOSEPH HALEY, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in the method of transmitting communication from one part of a railway train to another." <i>Provisional protection only.</i></p> <p>682. HENRY BOUSQUET, of No. 157, Fenchurch Street, in the City of London, Merchant, for an invention for—"Improvements in the manufacture of manure." <i>Letters Patent sealed.</i></p> <p>683. GEORGE DALTON, of Himley, near Dudley, in the County of Stafford, Gentleman, for an invention for—"Certain improvements in smelting or reducing iron ore, iron stone, or slag or scoria." <i>Provisional protection only.</i></p> <p>684. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in regulating steam-engines and other prime movers."—<i>A communication.</i> <i>Provisional protection only.</i></p> <p>685. SAMUEL RADCLIFFE, of Oldham, in the County of Lancaster, Cotton Spinner, and KNIGHT WILLIAM WHITEHEAD, of the same place, Manager, for an invention for—"Certain improvements in machinery or apparatus for grinding or setting the surfaces of cylinders and rollers employed in carding engines." <i>Letters Patent sealed.</i></p> <p>686. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of oil-lamp."—<i>A communication.</i> <i>Letters Patent sealed.</i></p> <p>687. JAMES FRASER, of Gracechurch Street, in the City of London, Merchant, for an invention for—"Improvements in the manufacture of portable packages." <i>Letters Patent sealed.</i></p> <p>688. WILLIAM WHITAKER COLLINS, of Buckingham Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in looms for weaving."—<i>A communication.</i> <i>Letters Patent sealed.</i></p> <p>689. THOMAS SYKES, of Castleford, Yorkshire, Gentleman, for an invention for—"Improvements in the treatment of soapy and greasy waters."—<i>A communication.</i> <i>Letters Patent sealed.</i></p> <p>690. MOSES POOLE, of the Avenue Road, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in generating steam and other vapours." <i>A communication.</i> <i>Letters Patent sealed.</i></p> <p>691. JEAN MARIE DURNERIN, of Paris, Rue de la Mounaie, No. 11, for an invention for—"Improvements in apparatus for extracting liquid out of solid substances, specially applicable to the treatment of fatty matters." <i>Letters Patent sealed.</i></p> <p>692. MOSES POOLE, of the Avenue Road, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in obtaining power when air is employed."—<i>A communication.</i> <i>Letters Patent sealed.</i></p> <p>693. ISAAC TAYLOR, of Stanford Rivers, in the County of Essex, Gentleman, for an invention for—"Improvements in machinery for printing woven and other fabrics." <i>Letters Patent sealed.</i></p> <p>694. JOHN BARSHAM, of Kingston-upon-Thames, Patent Cocoa-nut Fibre Manufacturer, for an invention for—"Improvements in apparatus for communicating between the guard and engine-driver or other persons in a railway train." <i>Letters Patent sealed.</i></p> |
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| BRETT.<br>21st March 1853.               | 695. JOHN BRETT, of Camden Town, in the County of Middlesex, Artist, for an invention for—"An improved portable sketching apparatus for artists."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                 |
| STATHER.<br>21st March 1853.             | 696. JOHN STATHER, of Kingston-upon-Hull, in the County of York, Printer, for an invention for—"Improvements in printing."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                              |
| MAW.<br>22nd March 1853.                 | 697. EDWIN MAW, of Seacombe, in the County of Chester, Civil Engineer, for an invention for—"An improvement in the mode of connecting sheets of corrugated iron when used in the construction of roofs, iron houses, and other purposes."<br><i>Provisional protection only.</i>                                                                                                                         |
| M'CORMICK.<br>22nd March 1853.           | 698. SAMUEL M'CORMICK, of No. 14, Fleet Street, in the City of Dublin, Engineer, for an invention for—"Improvements in manufacturing screws, bolts, spikes, and rivets, and other similar articles, and in the machinery or apparatus used for such manufacture, parts of which machinery are applicable for forming screw threads, mouldings, and ornaments on metal."<br><i>Letters Patent sealed.</i> |
| BOUCH.<br>22nd March 1853.               | 699. THOMAS BOUCH, of Edinburgh, in the County of Mid Lothian, North Britain, Civil Engineer, for an invention for—"Improvements in signals."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                           |
| JOHNSON.<br>22nd March 1853.             | 700. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the mode of smelting iron and other ores."— <i>A communication</i><br><i>Provisional protection only.</i>                                                                                                                              |
| JOHNSON.<br>22nd March 1853.             | 701. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in rolling and shaping malleable metals."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                        |
| NORCROSS.<br>22nd March 1853.            | 702. NICHOLAS G. NORCROSS, of Lowell, in the State of Massachusetts, of the United States of America, for an invention for—"Certain improvements in machinery for planing or reducing boards or timber."<br><i>Letters Patent sealed.</i>                                                                                                                                                                |
| FUTVOYE.<br>22nd March 1853.             | 703. FREDERICK FUTVOYE, of Regent Street, in the County of Middlesex, Merchant, for an invention for—"An improved apparatus to be employed in games of chance."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                         |
| HENSON.<br>22nd March 1853.              | 704. HENRY HENSON HENSON, of Hampstead, in the County of Middlesex, Civil Engineer, for an invention for—"An improvement or improvements in buffers."<br><i>Provisional protection only.</i>                                                                                                                                                                                                             |
| ALLEN.<br>23rd March 1853.               | 705. JAMES ALLEN, of Manchester, in the County of Lancaster, Brass-founder, for an invention for—"Certain improvements applicable to the safety-valves of steam boilers or generators."<br><i>Provisional protection only.</i>                                                                                                                                                                           |
| PARK.<br>23rd March 1853.                | 706. JOHN HENRY PARK, of Preston, in the County of Lancaster, Civil Engineer, and JOSEPH PARK, of Preston aforesaid, Plumber, for an invention for—"Improvements in water-closets and urinals."<br><i>Letters Patent sealed.</i>                                                                                                                                                                         |
| MASSAT.<br>23rd March 1853.              | 707. JEAN BAPTISTE MASSAT, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"Certain improvements in the manufacture of knives and other similar handle instruments."<br><i>Provisional protection only.</i>                                                                                                                                    |
| BOYLE.<br>23rd March 1853.               | 708. BERNARD BOYLE, of No. 2, Raven Row, Mile End, in the County of Middlesex, for an invention for—"A centripetal flange."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                             |
| HUGHES.<br>DENHAM.<br>23rd March 1853.   | 709. HESKETH HUGHES and WILLIAM THOMAS DENHAM, both of Cottage Place, in the County of Middlesex, for an invention for—"Improvements in pianofortes, organs, seraphins, and other like musical instruments."<br><i>Letters Patent sealed.</i>                                                                                                                                                            |
| CROSLAND.<br>23rd March 1853.            | 710. WILLIAM MANN CROSLAND, of Beaumont Street, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in block-making machinery."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                              |
| CLAUDET.<br>23rd March 1853.             | 711. ANTOINE FRANÇOIS JEAN CLAUDET, of Regent Street, in the County of Middlesex, Photographic Artist, for an invention for—"Improvements in stereoscopes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                             |
| SIEMENS.<br>ADAMSON.<br>24th March 1853. | 712. CHARLES WILLIAM SIEMENS, of Adelphi Terrace, in the County of Middlesex, Engineer, and JOSEPH ADAMSON, of Leeds, in the County of York, Engineer, for an invention for—"Improvements in rotatory fluid meters."<br><i>Letters Patent sealed.</i>                                                                                                                                                    |



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| BEAUMONT.<br>24th March 1853.            | 713. JOHN BEAUMONT, of Dalton, near Huddersfield, in the County of York, Manufacturer, for an invention for—"A new manufacture of certain descriptions of woven fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                       |
| SHARP.<br>24th March 1853.               | 714. WILLIAM PRIOR SHARP, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in machinery for spinning and doubling cotton and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                          |
| GRUNDY.<br>JONES.<br>24th March 1853.    | 715. ROBERT GRUNDY, of Hindley, in the County of Lancaster, Cotton Spinner, and JAMES JONES, of Warrington, in the same County, Cotton Spinner, for an invention for—"Improvements in machinery for preparing, spinning, and doubling cotton and other fibrous materials."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                              |
| DE ROULET.<br>24th March 1853.           | 716. CHARLES VICTOR FRÉDÉRIC DE ROULET, of Paris, in the Empire of France, late a Shipowner, but now out of business, for an invention for—"Certain improvements in the manufacture of piled figured fabrics, by alterations in and additions to looms for weaving, including also a warping-machine, with a method of reading and arranging the colors or materials for the patterns of such figured fabrics."<br><i>Letters Patent sealed.</i> |
| WEBSTER.<br>STONES.<br>24th March 1853.  | 717. HENRY WEBSTER, of Sheffield, in the County of York, Gentleman, and EDWARD DAWSON STONES, of Sheffield aforesaid, Mechanic, for an invention for—"Improvements in the construction of gas-stoves."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                          |
| KEATES.<br>24th March 1853.              | 718. WILLIAM KEATES, of the firm of Newton, Keates, and Company, of Liverpool, in the County of Lancaster, Merchants, for an invention for—"Improvements in the manufacture of tubes and mandrils."— <i>Partly a communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                             |
| HOLM.<br>24th March 1853.                | 719. CHARLES AUGUSTUS HOLM, of 21, Cecil Street, Strand, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in propelling vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                 |
| JACKSON.<br>JACKSON.<br>24th March 1853. | 720. GEORGE ISAAC JACKSON and HENRY DAVID JACKSON, of 46, Castle Street, Liverpool, for an invention for—"Improvements in fasteners for buttons."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                               |
| M'NAUGHT.<br>24th March 1853.            | 721. WILLIAM M'NAUGHT, of Rochdale, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in steam-engines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                         |
| EDIE.<br>24th March 1853.                | 722. WILLIAM EDIE, of Dundee, in the County of Forfar, North Britain, Manager, for an invention for—"Improvements in the treatment or manufacture of textile materials."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                  |
| WALKER.<br>24th March 1853.              | 723. ROBERT WALKER, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in working and increasing the safety of railways."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                         |
| SYMONDS.<br>26th March 1853.             | 724. ERASMUS SYMONDS, of Great Bell Alley, in the City of London, Merchant, for an invention for—"An improved self-acting plug for barges, boats, and other vessels."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                     |
| MORGAN.<br>26th March 1853.              | 725. JOSEPH MORGAN, Tin-plate Worker, in the employment of Tyler and Pace, of Hackney, in the County of Middlesex, for an invention for—"Improvements in engines or apparatus for raising and forcing liquids and fluids."<br><i>Provisional protection NOT granted.</i>                                                                                                                                                                         |
| HAZARD.<br>26th March 1853.              | 726. ROBERT HAZARD, of 14, Lincoln's Inn Fields, in the County of Middlesex, Warming and Ventilating Engineer, for an invention for—"A podombrosiontron, or an improved apparatus for either sponge or shower bath, and all lavatry purposes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                  |
| PRINCE.<br>26th March 1853.              | 727. ALEXANDER PRINCE, of the Office for Patents, No. 4, Trafalgar Square, Charing Cross, in the County of Middlesex, for an invention for—"Improvements in carriages."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                |
| SMEDLEY.<br>26th March 1853.             | 728. THOMAS SMEDLEY, of Holywell, in the County of Flint, Gentleman, for an invention for—"Certain improvements in steam-boilers."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                              |
| DE BERGUE.<br>26th March 1853.           | 729. CHARLES DE BERGUE, of No. 9, Dowgate Hill, in the City of London, Engineer, for an invention for—"Improvements in railway-carriages."<br><i>Provisional protection NOT granted.</i>                                                                                                                                                                                                                                                         |



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| BROOMAN.<br>26th March 1853.               | 730. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"An improved rag tearing and separating machine."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                              |
| ROBB.<br>26th March 1853.                  | 731. GEORGE ROBB, of Glasgow, in the County of Lanark, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of sulphuric acid, alkalis, and their salts." <i>Letters Patent sealed.</i>                                                                                                                              |
| WORRALL.<br>26th March 1853.               | 732. JAMES WORRALL, junior, of Salford, in the County of Lancaster, Dyer and Finisher, for an invention for—"Certain improvements in the method of preparing, treating, and finishing, cut-piled or raised fustians and other similar goods or fabrics, and in the machinery or apparatus connected therewith." <i>Letters Patent sealed.</i>   |
| ASBURY.<br>28th March 1853.                | 733. GEORGE OAKES ASBURY, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of dowls used in joinery." <i>Letters Patent sealed.</i>                                                                                                                               |
| CAMPBELL.<br>28th March 1853.              | 734. JOHN GEORGE TRUSCOTT CAMPBELL, Grocer, No. 13, Lambeth Hill, Upper Thames Street, City of London, Middlesex, for an invention for—"Certain improvements in ships' propellers." <i>Letters Patent sealed.</i>                                                                                                                               |
| BROWN.<br>28th March 1853.                 | 735. DAVID STEPHENS BROWN, of No. 2, Alexandrian Lodge, Old Kent Road, in the County of Surrey, Gentleman, for an invention for—"Certain improvements in engines to be worked by steam or any other elastic fluid, which invention also includes the apparatus for generating such steam or other elastic fluid." <i>Letters Patent sealed.</i> |
| BERNARD.<br>ST. ROMAN.<br>28th March 1853. | 736. AUGUSTIN CHRYSOSTOME BERNARD and JACQUES MARIE PIERRE ALBÉRIC DE ST. ROMAN, of Paris, France, and of 4, South Street, Finsbury, London, Gentlemen, for an invention for—"An improved mode of giving publicity." <i>Letters Patent sealed.</i>                                                                                              |
| PERRY.<br>28th March 1853.                 | 737. THOMAS JAMES PERRY, of the Lozells, in the Parish of Aston-juxta-Birmingham, in the County of Warwick, Engine Turner, for an invention for—"Improvements in printing." <i>Letters Patent sealed.</i>                                                                                                                                       |
| SCOTT.<br>JAFFREY.<br>28th March 1853.     | 738. JOHN SCOTT, junr., and GEORGE WILLIAM JAFFREY, both of Greenock, in the County of Renfrew, North Britain, Engineers, for an invention for—"Improvements in steam engines." <i>Letters Patent sealed.</i>                                                                                                                                   |
| FOX.<br>28th March 1853.                   | 739. SAMUEL FOX, of Stockbridge Works, Deepcar, near Sheffield, for an invention for—"An improvement in the frames of umbrellas and parasols." <i>Letters Patent sealed.</i>                                                                                                                                                                    |
| DERING.<br>28th March 1853.                | 740. GEORGE EDWARD DERING, of Lockleys, in the County of Hertford, for an invention for—"Improvements in preserving or preventing decomposition in vegetable and animal substances and matters." <i>Letters Patent sealed.</i>                                                                                                                  |
| DERING.<br>28th March 1853.                | 741. GEORGE EDWARD DERING, of Lockleys, in the County of Hertford, for an invention for—"Improvements in the manufacture of certain salts and oxides of metals." <i>Letters Patent sealed.</i>                                                                                                                                                  |
| BAYLISS.<br>29th March 1853.               | 742. SAMUEL BAYLISS, of Old Broad Street, in the City of London, in the County of Middlesex, for an invention for—"Improvements in the construction of ships and vessels." <i>Provisional protection only.</i>                                                                                                                                  |
| WEBLEY.<br>29th March 1853.                | 743. JAMES WEBLEY, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the construction of repeating or revolving and other pistols and fire-arms." <i>Letters Patent sealed.</i>                                                                                                                      |
| SMITH.<br>SMITH.<br>29th March 1853.       | 744. LUKE SMITH, of Littleborough, in the County of Lancaster, Mechanic, and MATTHEW SMITH, of Heywood, in the same County, Mechanic, for an invention for—"Improvements in machinery for weaving and printing." <i>Letters Patent sealed.</i>                                                                                                  |
| HILL.<br>29th March 1853.                  | 745. THOMAS HILL, of the Town and County of the Town of Southampton, Gentleman, for an invention for—"Certain improvements in springs, and also in the modes of their application to railway engines and carriages."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                  |



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| NEWTON.<br>29th March 1853.   | 746. SAMUEL NEWTON, of Stockport, in the County of Chester, Cotton Manufacturer, for an invention for—"A self-acting friction break to be applied to engines, carriages, and waggons used on railways." <i>Letters Patent sealed.</i>                                                                    |
| CORLETT.<br>29th March 1853.  | 747. HENRY LEE CORLETT, of No. 106, Summer Hill, in the City of Dublin, Gentleman, for an invention for—"Improvements in railway waggons." <i>Letters Patent sealed.</i>                                                                                                                                 |
| HEATH.<br>29th March 1853.    | 748. ROBERT HEATH, of Betley, in the County of Stafford, for an invention for—"Improvements in railway breaks and signals." <i>Letters Patent sealed.</i>                                                                                                                                                |
| RIDER.<br>29th March 1853.    | 749. ISAAC RIDER, of Bristol, in the County of Somerset, Brass Founder, for an invention for—"Improvements in cocks for drawing off beer or other liquids." <i>Letters Patent sealed.</i>                                                                                                                |
| KEOGH.<br>29th March 1853.    | 750. LAURENCE FREDERICK KEOGH, of Liverpool, in the County of Lancaster, Cotton Broker, for an invention for—"Improvements in looms for weaving." <i>Letters Patent sealed.</i>                                                                                                                          |
| GRAY.<br>29th March 1853.     | 751. JOHN GRAY, of Glasgow, in the County of Lanark, North Britain, Gentleman, for an invention for—"Improvements in the application of heat for baking." <i>Provisional protection only.</i>                                                                                                            |
| HENHAM.<br>29th March 1853.   | 752. WILLIAM HENHAM, of East Peckham, in the County of Kent, Farmer, for an invention for—"Improvements in ploughs." <i>Provisional protection only.</i>                                                                                                                                                 |
| HODGSON.<br>29th March 1853.  | 753. WILLIAM HODGSON, of Wakefield, in the County of York, Engineer, for an invention for—"Improvements in the manufacture of woven, textile, and looped fabrics, and in the machinery employed therein." <i>Provisional protection NOT granted.</i>                                                     |
| PYM.<br>29th March 1853.      | 754. JOHN PYM, of Pimlico, in the County of Middlesex, Gentleman, for an invention for—"Improvements in propelling ships and other vessels." <i>Provisional protection NOT granted.</i>                                                                                                                  |
| PYM.<br>29th March 1853.      | 755. JOHN PYM, of Pimlico, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the permanent way of railways." <i>Letters Patent sealed.</i>                                                                                                                                    |
| SHAW.<br>29th March 1853.     | 756. GEORGE SHAW, of Allen Street, Sheffield, in the County of York, Britannia Metal Manufacturer, for an invention for—"Improvements in the manufacture of knives and forks." <i>Letters Patent sealed.</i>                                                                                             |
| BERNARD.<br>29th March 1853.  | 757. JULIAN BERNARD, of Guildford Street, Russell Square, in the County of Middlesex, Gentleman, for an invention for—"Certain improvements in boots, shoes, and clogs, and in the machinery or apparatus and materials connected therewith." <i>Letters Patent sealed.</i>                              |
| HADDAN.<br>29th March 1853.   | 758. JOHN COOPE HADDAN, of No. 29, Bloomsbury Square, in the County of Middlesex, Civil Engineer, for an invention for—"Improvement in railway carriages." <i>Provisional protection only.</i>                                                                                                           |
| BILLING.<br>30th March 1853.  | 759. MARTIN BILLING, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved method of constructing the walls of houses, hothouses, and other buildings, which said method is also applicable to the construction of fences." <i>Provisional protection only.</i> |
| HENHAM.<br>30th March 1853.   | 760. WILLIAM HENHAM, of East Peckham, in the County of Kent, Farmer, for an invention for "Certain improvements in regulating the draft in chimneys and other outlets for smoke, air, and vapours." <i>Provisional protection only.</i>                                                                  |
| LOMBARD.<br>30th March 1853.  | 761. LOUIS MICHEL LOMBARD, of Paris, in the Empire of France, Barrister-at-law, for an invention for—"Improvements in obtaining motive-power." <i>Letters Patent sealed.</i>                                                                                                                             |
| BOWRON.<br>30th March 1853.   | 762. JAMES BOWRON, of Tyne and Tees Glass Works, South Shields, for an invention for—"Improvements in the manufacture of crown, sheet, plate, and bottle glass." <i>Letters Patent sealed.</i>                                                                                                           |
| NICKELS.<br>30th March 1853.  | 763. CHRISTOPHER NICKELS, of the York Road, in the County of Surrey, for an invention for—"Improvements in weaving narrow fabrics." <i>Letters Patent sealed.</i>                                                                                                                                        |
| DALGLISH.<br>30th March 1853. | 764. ROBERT DALGLISH, of the City of Glasgow, Calico Printer, for an invention for—"An improvement in dyeing." <i>Letters Patent sealed; no specification filed.</i>                                                                                                                                     |



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| RAMSDEN.<br>30th March 1853.             | 765. JOHN CARTER RAMSDEN, of Bradford, in the County of York, Stuff Manufacturer, for an invention for—"Improvements in looms for weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                             |
| VILLIET.<br>30th March 1853.             | 766. JOSEPH XAVIER VILLIET, aîné, of Boulevard du Temple, Paris, in the Empire of France, and of 4, South Street, Finsbury, London, for an invention for—"Certain improvements in the production of aerated liquids."<br><i>Provisional protection only.</i>                                                                                                                                                             |
| HOUSTON.<br>30th March 1853.             | 767. JAMES HOUSTON, of Dunfermline, in the County of Fife, North Britain, Manager, for an invention for—"Improvements in weaving."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                |
| WORRALL.<br>30th March 1853.             | 768. JAMES WORRALL, junior, of Salford, in the County of Lancaster, Dyer and Finisher, for an invention for—"Certain improvements in the method of preparing, treating, and finishing certain textile fabrics called cords, thicksets, velveteens, and beaverteens."<br><i>Letters Patent sealed.</i>                                                                                                                    |
| FAULKNER.<br>30th March 1853.            | 769. LOT FAULKNER, of Cheadle, in the County of Chester, Machinist, for an invention for—"Certain improvements in the method of obtaining motive-power."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                |
| AYMARD.<br>31st March 1853.              | 770. WILLIAM AUGUSTUS PASCAL AYMARD, of 4, South Street, Finsbury, in the County of Middlesex, Gentleman, for an invention for—"Certain improvements in applying to illuminating the extract of bituminous products of coal, peat, and lignites, and in rectifying and epurating the essences and greasy matter from coal."— <i>A communication from P. I. Salomon, of Paris.</i><br><i>Provisional protection only.</i> |
| RYLANDS.<br>31st March 1853.             | 771. JOSEPH RYLANDS, of the Borough of Kingston-upon-Hull, Shipowner, for an invention for—"Improvement in yards and spars of ships and other vessels."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                                                                         |
| McGAVIN.<br>31st March 1853.             | 772. ROBERT McGAVIN, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in the construction of ships' masts, yards, booms, and in spars."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                 |
| HANSON.<br>CHADWICK.<br>31st March 1853. | 773. GEORGE HANSON, of Huddersfield, in the County of York, Plumber, and DAVID CHADWICK, of Salford, in the County of Lancaster, Gentlemen, for an invention for—"Improvements in apparatus for measuring gas, water, and other fluids, which improvements are also applicable for obtaining motive-power."<br><i>Letters Patent sealed.</i>                                                                             |
| RADCLIFFE.<br>31st March 1853.           | 774. JOHN RADCLIFFE, of Bradford, in the County of Lancaster, Manager, for an invention for—"Improvements in looms for weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                        |
| WILSON.<br>LEE.<br>1st April 1853.       | 775. GEORGE FERGUSON WILSON, of Belmont, Vauxhall, in the County of Surrey, Managing Director of Price's Patent Candle Company, and JAMES FREEMAN LEE, of the same place, for an invention for—"Improvements in the manufacture of night-lights and their cases."<br><i>Letters Patent sealed.</i>                                                                                                                       |
| WILSON.<br>1st April 1853.               | 776. GEORGE FERGUSON WILSON, of Belmont, Vauxhall, in the County of Surrey, Managing Director of Price's Patent Candle Company, for an invention for—"Improvements in treating certain oily matters, and in the manufacture of oil."<br><i>Letters Patent sealed.</i>                                                                                                                                                    |
| BRITTAIN.<br>1st April 1853.             | 777. BARTHOLOMEW BRITTAIN, of Waterloo Road, in the County of Surrey, Bedstead Manufacturer, for an invention for—"Improvements in the means of supporting or retaining bedsteads or other articles of furniture in their proper positions."<br><i>Provisional protection only.</i>                                                                                                                                      |
| SMEDLEY.<br>1st April 1853.              | 778. JOHN SMEDLEY, of Lea Mills, Matlock, in the County of Derby, Spinner, for an invention for—"Improvements in machinery or apparatus for opening, cleaning, blowing, or scutching animal wool, cotton, or other fibrous substances or materials."<br><i>Letters Patent sealed.</i>                                                                                                                                    |
| CROFTS.<br>1st April 1853.               | 779. WILLIAM CROFTS, of Derby Terrace, Nottingham Park, for an invention for—"Improvements in weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                 |
| SAUNDERS.<br>1st April 1853.             | 780. JONATHAN SAUNDERS, of St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in the manufacture of railway tyres."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                  |



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| <p>SPENCER.<br/>TATTERSALL.<br/>SIMPHSON.<br/>1st April 1853.</p> <p>PETERSON.<br/>1st April 1853.</p> <p>WILSON.<br/>1st April 1853.</p> <p>WILSON.<br/>1st April 1853.</p> <p>WILSON.<br/>1st April 1853.</p> <p>ANDERSON.<br/>2nd April 1853.</p> <p>HOLCROFT.<br/>HOYLE.<br/>2nd April 1853.</p> <p>ROBB.<br/>2nd April 1853.</p> <p>BARTHELEMY.<br/>2nd April 1853.</p> <p>SNELLING.<br/>2nd April 1853.</p> <p>ROSENKILDE.<br/>2nd April 1853.</p> <p>MOWBRAY.<br/>2nd April 1853.</p> <p>NEWTON.<br/>4th April 1853.</p> <p>FINDLOW.<br/>4th April 1853.</p> <p>PALIN.<br/>4th April 1853.</p> <p>NEWTON.<br/>4th April 1853.</p> | <p>781. HENRY SPENCER, Manager, HENRY TATTERSALL, Mechanic, and HUGH SIMPHSON, Carder, all of Rochdale, in the County of Lancaster, for an invention for—"Certain improvements in machinery or apparatus for preparing and spinning cotton and other fibrous materials."<br/><i>Letters Patent sealed.</i></p> <p>782. ROBERT EVANS PETERSON, of Tottenham Court Road, in the County of Middlesex, Gentleman, for an invention for—"An improved piston."—<i>A communication.</i><br/><i>Letters Patent sealed.</i></p> <p>783. GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, in the County of Surrey, Managing Director of Price's Patent Candle Company, for an invention for—"Improvements in the manufacture of cloths and in the preparation of wool."<br/><i>Letters Patent sealed.</i></p> <p>784. GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, in the County of Surrey, Managing Director of Price's Patent Candle Company, for an invention for—"Improvements in treating certain greasy matters, and in the manufacture of candles."<br/><i>Letters Patent sealed.</i></p> <p>785. GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, in the County of Surrey, Managing Director of Price's Patent Candle Company, for an invention for—"Improvements in the manufacture of night-lights, and in apparatus to be used therewith."<br/><i>Letters Patent sealed.</i></p> <p>786. SIR JAMES CALEB ANDERSON, Baronet, of Fermoy, in the County of Cork, Ireland, for an invention for—"Improvements in locomotive-engines."<br/><i>Letters Patent sealed.</i></p> <p>787. GEORGE HOLCROFT and WILLIAM JENNINGS HOYLE, both of Manchester, in the County of Lancaster, Engineers, for an invention for—"Certain improvements in steam-engines."<br/><i>Provisional protection only.</i></p> <p>788. GEORGE ROBB, of Glasgow, in the County of Lanark, North Britain, Veterinary Surgeon, for an invention for—"Improvements in the manufacture of sulphuric acids, alkalis, and their salts."<br/><i>Letters Patent sealed.</i></p> <p>789. NICOLAS FERDINAND BARTHELEMY, of Paris, in France, Manufacturer, for an invention for—"Improvements in apparatus for sharpening razors."<br/><i>Provisional protection only.</i></p> <p>790. ALBION RICHARD SNELLING, of Tottenham, in the County of Middlesex, for an invention for—"An improved emigrant's habitation cart."<br/><i>Provisional protection only.</i></p> <p>791. CHRISTOPHER GARMAN ROSENKILDE, of Christiansand, Norway, Merchant, for an invention for—"Improvements in window-sash fastenings."<br/><i>Letters Patent sealed.</i></p> <p>792. FREDERICK WILLIAM MOWBRAY, of Bradford, in the County of York, Engineer, for an invention for—"Improvements in doubling wool and other fibrous substances."<br/><i>Letters Patent sealed.</i></p> <p>793. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in engines to be worked by air or gases."—<i>A communication.</i><br/><i>Letters Patent sealed.</i></p> <p>794. JAMES FINDLOW, of Manchester, in the County of Lancaster, Joiner, for an invention for—"Improvements in beds or couches for sick persons."<br/><i>Letters Patent sealed.</i></p> <p>795. JOSEPH PALIN, of Liverpool, in the County of Lancaster, Wholesale Druggist, for an invention for—"Improvements in apparatus applicable to evaporation and distillation."<br/><i>Provisional protection only.</i></p> <p>796. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in producing plates or surfaces which may be used as printing or embossing surfaces, or as door-plates, dial or number plates, or other plates or surfaces bearing inscriptions or devices of various kinds."—<i>A communication.</i><br/><i>Letters Patent sealed.</i></p> |
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| JOHNSON.<br>4th April 1853.            | 797. WILLIAM BECKETT JOHNSON, of Manchester, in the County of Lancaster, Manager for Messrs. Ormerod and Son, Engineers and Iron-founders, for an invention for—"Improvements in steam-engines, and in apparatus connected therewith."<br><i>Letters Patent sealed.</i>                                                                                                        |
| SIEVIER.<br>CROSBY.<br>4th April 1853. | 798. ROBERT WILLIAM SIEVIER, of Upper Holloway, in the County of Middlesex, Gentleman, and JAMES CROSBY, of Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Improvements applicable to looms for the manufacture of textile fabrics."<br><i>Letters Patent sealed.</i>                                                                             |
| ROSS.<br>ROSS.<br>4th April 1853.      | 799. JESSE ROSS, of 7, Victoria Terrace, Keighley, in the County of York, Gentleman, and THOMAS ROBERT HAFFORD ROSS, of 73, New Walk, Leicester, in the County of Leicester, Fancy Hoisier, for an invention for—"Certain improvements in machinery or apparatus for combing wool, cotton, silk, flax, and other suitable fibrous materials."<br><i>Letters Patent sealed.</i> |
| BROCKBANK.<br>4th April 1853.          | 800. GEORGE HENRY BROCKBANK, of 3, Crawley Street, Oakley Square, for an invention for—"Improvements in horizontal pianofortes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                              |
| WALKER.<br>4th April 1853.             | 801. WILLIAM WALKER, of Park Malt Kilns, 55, Marlborough Street, Leeds, in the County of York, for an invention for—"Improvements in drying malt."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                            |
| POOLE.<br>4th April 1853.              | 802. MOSES POOLE, of Avenue Road, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in winding silk from the cocoon."<br><i>A communication. Provisional protection only.</i>                                                                                                                                                                      |
| STEIGEWALD.<br>4th April 1853.         | 803. FRANCIS STEIGEWALD, of Munich, in the Kingdom of Bavaria, for an invention for—"Improvements in the manufacture of glass and porcelain."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                                         |
| MAY.<br>4th April 1853.                | 804. CHARLES MAY, of Great George Street, Westminster, Civil Engineer, for an invention for—"Improvements in machinery for manufacturing and rolling iron."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| STEIGEWALD.<br>4th April 1853.         | 805. FRANCIS STEIGEWALD, of Munich, in the Kingdom of Bavaria, for an invention for—"Improvements in heating furnaces."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                                                               |
| BURQ.<br>4th April 1853.               | 806. ANTOINE BURQ, of Paris, Chemist, for an invention for—"Certain instruments, apparatus, and articles for the application of electro-galvanic and magnetic action for medical purposes."<br><i>Letters Patent sealed.</i>                                                                                                                                                   |
| LAWSON.<br>4th April 1853.             | 807. JOHN LAWSON, of Biggar, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in the suspension and management of ships' boats."<br><i>Provisional protection only.</i>                                                                                                                                                                    |
| NEWTON.<br>4th April 1853.             | 808. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of self-inking stamping apparatus."<br><i>A communication. Provisional protection only.</i>                                                                                                       |
| SLEIGH.<br>5th April 1853.             | 809. WILLIAM WILLCOCKS SLEIGH, of London, in the County of Middlesex, Physician and Surgeon, for an invention for—"The production of motive-power, which he entitles 'The counteracting reaction motive-power engine.'"<br><i>Letters Patent sealed.</i>                                                                                                                       |
| MAVITY.<br>5th April 1853.             | 810. WILLIAM MAVITY, of Birmingham, in the County of Warwick, Electro-plater, for an invention for—"A new or improved method of manufacturing letters and figures to be used as printing-type, lettering for sign and window boards, and other such like purposes."<br><i>Letters Patent sealed.</i>                                                                           |
| STANLEY.<br>5th April 1853.            | 811. EDMOND STANLEY STANLEY, of 77, Sloane Street, in the County of Middlesex, Esquire, for an invention for—"An improvement in the manufacture of soda ash or carbonate of soda from common salt."<br><i>A communication. Provisional protection only.</i>                                                                                                                    |
| PURCELL.<br>5th April 1853.            | 812. GEORGE PURCELL, of Patrick Street, in the City of Cork, Printer, for an invention for—"A new method of adjustment in the art of printing, by means of certain combinations of various sized spaces and quadrats."<br><i>Letters Patent sealed.</i>                                                                                                                        |
| O'CONNOR.<br>5th April 1853.           | 813. JOHN O'CONNOR, of Glentworth Street, in the County of the City of Limerick, for an invention for—"The manufacture of coke from raw peat."<br><i>Provisional protection only.</i>                                                                                                                                                                                          |



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| LONG.<br>5th April 1853.     | 814. JAMES LONG, of Gorleston, in the County of Norfolk, Master, Royal Navy, for an invention for—"An improved method of setting up and adjusting ships' rigging of all tonnage."<br><i>Provisional protection only.</i>                                                                                                                                             |
| FLANDERS.<br>5th April 1853. | 815. SMITH FLANDERS, of Wingham, in the County of Kent, for an invention for—"Certain improvements in the construction of ploughs."<br><i>Provisional protection only.</i>                                                                                                                                                                                           |
| HALEY.<br>5th April 1853.    | 816. JOSEPH HALEY, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery or apparatus for forging, stamping, and cutting iron or other substances, which machinery or apparatus is commonly called a steam-hammer."<br><i>Provisional protection only.</i>                                                            |
| PIDDING.<br>5th April 1853.  | 817. WILLIAM PIDDING, of the Strand, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of woven textile or other fabrics, and in the machinery or apparatus connected therewith."<br><i>Letters Patent sealed.</i>                                                                                                        |
| JOHNSON.<br>5th April 1853.  | 818. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in weaving, and in the machinery employed therein."<br><i>A communication. Letters Patent sealed.</i>                                                                                               |
| CARR.<br>5th April 1853.     | 819. THOMAS CARR, of Chowbent, in the County of Lancashire, Wholesale Ironmonger, for an invention for—"Improvements in nails and other fastenings, and in the machinery or apparatus employed in the manufacture thereof."<br><i>Provisional protection only.</i>                                                                                                   |
| THOMAS.<br>5th April 1853.   | 820. JOHN THOMAS, of Caen, in the Empire of France, Gas Engineer, for an invention for—"Improvements in apparatus for the manufacture of gas and coke."<br><i>Letters Patent sealed.</i>                                                                                                                                                                             |
| PIDDING.<br>5th April 1853.  | 821. WILLIAM PIDDING, of the Strand, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the preparation or treatment of twine or other threads, or cuttings of paper or other waste, for the production of useful and ornamental articles."<br><i>Letters Patent sealed.</i>                                                               |
| SIMONS.<br>6th April 1853.   | 822. EDWARD SIMONS, of Birmingham, in the County of Warwick, Tallow Chandler, for an invention for—"Improvements in telegraphing or communicating signals."<br><i>Letters Patent sealed.</i>                                                                                                                                                                         |
| GATTY.<br>6th April 1853.    | 823. FREDERICK ALBERT GATTY, of Accrington, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in printing or producing colours on textile fabrics."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                                     |
| PRATT.<br>6th April 1853.    | 824. JAMES JERRAM PRATT, of Long Eaton, in the County of Derby, Gentleman, for an invention for—"Certain improvements in stockings."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                |
| LEACHMAN.<br>6th April 1853. | 825. HENRY LEACHMAN, of 13, Compton Terrace, Islington, in the County of Middlesex, Colonial Broker, for an invention for—"Improvements in the manufacture of iron."<br><i>A communication. Letters Patent sealed.</i>                                                                                                                                               |
| JOWETT.<br>6th April 1853.   | 826. HENRY ALFRED JOWETT, of Sawley, in the County of Derby, Engineer, for an invention for—"Improvements in apparatus for heating, which improvements are particularly applicable for generating steam or evaporating solutions, and may be applied for heating purposes generally."<br><i>Letters Patent sealed.</i>                                               |
| RADFORD.<br>6th April 1853.  | 827. WILLIAM RADFORD, of Buckingham Street, in the County of Middlesex, Lieutenant in Her Majesty's Navy, for an invention for—"Improvements in the construction of metallic beams or bracings and metallic sheets or plates, applicable to the building of ships and other structures, where lightness and strength are required."<br><i>Letters Patent sealed.</i> |
| JOHNSON.<br>6th April 1853.  | 828. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in the production of ornamental surfaces in glass, porcelain, metals, and similar materials."<br><i>A communication. Letters Patent sealed.</i>                                                     |
| JOHNSON.<br>6th April 1853.  | 829. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in the manufacture of safety paper."<br><i>A communication. Provisional protection only.</i>                                                                                                        |



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| DENISON.<br>DENISON.<br>6th April 1853.       | 830. SAMUEL DENISON, of Leeds, in the County of York, Machine Maker and Smith, and HENRY DEAN DENISON, of Leeds, in the County of York, Machine Maker and Smith, for an invention for—"Improvements in rating, breaking, and scutching flax, hemp, and other fibrous matters." <i>Provisional protection only.</i>                                           |
| HEATHER.<br>7th April 1853.                   | 831. JOHN FRY HEATHER, M.A., Mathematical Master at the Royal Academy, Woolwich, in the County of Kent, for an invention for—"A pneumometer for determining the densities or specific gravities of gases." <i>Provisional protection only.</i>                                                                                                               |
| AYMARD.<br>7th April 1853.                    | 832. WILLIAM AUGUSTUS PASCAL AYMARD, of 4, South Street, Finsbury, in the County of Middlesex, Gentleman, for an invention for—"Certain improvements in the preparation for and application to the manufacture of candles and other purposes, of certain fatty and resinous bodies or substances."— <i>A communication.</i><br><i>Letters Patent sealed.</i> |
| MORGAN.<br>7th April 1853.                    | 833. WILLIAM MORGAN, of Birmingham, in the County of Warwick, Manufacturer of piano key-pins, &c., for an invention for—"Improvements in paper and cardboard cutting-machines." <i>Letters Patent sealed.</i>                                                                                                                                                |
| GRIST.<br>7th April 1853.                     | 834. JOHN GRIST, of the New North Road, Islington, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery for the manufacture of casks, barrels, and other similar vessels." <i>Letters Patent sealed.</i>                                                                                                                    |
| MOWBRAY.<br>7th April 1853.                   | 835. FREDERICK WILLIAM MOWBRAY, of Bradford, in the County of York, Engineer, for an invention for—"Improvements in apparatus used in preparing and combing wool and other fibrous materials." <i>Letters Patent sealed.</i>                                                                                                                                 |
| WELLS.<br>MANN.<br>HARMAN.<br>7th April 1853. | 836. WILLIAM HENRY WELLS, Miller, EDWARD MANN, and JOHN HARMAN, Journeymen Millers, all of Wandsworth, in the County of Surrey, for an invention for—"Improvements in grinding wheat and other grain." <i>Letters Patent sealed; no specification filed.</i>                                                                                                 |
| BRYAN.<br>7th April 1853.                     | 837. EDWARD LANGDON BRYAN, of Hoxton, in the County of Middlesex, for an invention for—"Improvements in warming and ventilating rooms and buildings." <i>Letters Patent sealed.</i>                                                                                                                                                                          |
| MATHER.<br>7th April 1853.                    | 838. COLIN MATHER, of Salford Iron Works, Salford, for an invention for—"Improvements in power-looms." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                         |
| CLARK.<br>7th April 1853.                     | 839. ROBERT PATTISON CLARK, of Lambton Collieries, in the County of Durham, Engineer, for an invention for—"Improvements in machinery for loading and unloading colliers and other ships and vessels." <i>Letters Patent sealed.</i>                                                                                                                         |
| LE MESURIER.<br>7th April 1853.               | 840. FREDERICK LE MESURIER, of Pau, Basses Pyrenees, France, for an invention of—"Improvements in apparatus for measuring and indicating a given period of time." <i>Letters Patent sealed.</i>                                                                                                                                                              |
| GREEN.<br>7th April 1853.                     | 841. LEOPOLD JOSEPH GREEN, of Leatherhead, in the County of Surrey, Ironmonger and Whitesmith, for an invention for—"Improvements in axle-tree boxes." <i>Letters Patent sealed.</i>                                                                                                                                                                         |
| NICKELS.<br>7th April 1853.                   | 842. CHRISTOPHER NICKELS, of York Road, Lambeth, in the County of Surrey, for an invention for—"Improvements in machinery for masticating, kneading, or grinding india-rubber, gutta-percha, and other matters." <i>Letters Patent sealed.</i>                                                                                                               |
| FULLER.<br>7th April 1853.                    | 843. WILLIAM FULLER, of Jermyn Street, in the County of Middlesex, Ice Pail Maker, for an invention for—"Improvements in ice-pails or apparatus for refrigerating." <i>Provisional protection only.</i>                                                                                                                                                      |
| GOBLE.<br>8th April 1853.                     | 844. GEORGE FREDERIC GOBLE, of 15, Great Fish Street Hill, in the City of London, Master Mariner, for an invention for—"Improvements in safety-valves for steam-boilers and gas-chambers." <i>Letters Patent sealed.</i>                                                                                                                                     |
| SMITH.<br>8th April 1853.                     | 845. WILLIAM FORD SMITH, of Manchester, in the County of Lancaster, Engineer, for an invention for—"An improvement in certain vessels or utensils for heating liquids." <i>Provisional protection only.</i>                                                                                                                                                  |
| MOSELEY.<br>8th April 1853.                   | 846. WILLIAM MOSELEY, Architect, of 32, Cumberland Terrace, Regent's Park, for an invention for—"A new method of railway traction, to be called a pony railway." <i>Letters Patent sealed.</i>                                                                                                                                                               |



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| HUMPHREY.<br>8th April 1853.             | 847. GEORGE HUMPHREY, Engineer, of Brighton, for an invention for—"An improved self-acting safety-valve for locomotive, marine, and other steam-boilers."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                     |
| BRADEN.<br>8th April 1853.               | 848. ALEXANDER SAMUEL BRADEN, of High Street, Islington, in the County of Middlesex, Tea and Coffee Dealer, for an invention for—"Improvements in apparatus for roasting coffee, cocoa, and other vegetable matters, and for cooling the same when roasted."<br><i>Letters Patent sealed.</i>                                                                                  |
| PRATVIEL.<br>8th April 1853.             | 849. JEAN JOSEPH THEODORE PRATVIEL, of Paris, Spinner, for an invention for—"An improved machine for doubling, twisting, and reeling fibrous substances."<br><i>Provisional protection only.</i>                                                                                                                                                                               |
| FLANAGAN.<br>8th April 1853.             | 850. PATRICK FRANCIS FLANAGAN, of Liverpool, in the County of Lancaster, Hat Manufacturer, for an invention for—"Improvements in the manufacture of hats for yachting and general purposes."<br><i>Provisional protection only.</i>                                                                                                                                            |
| ROBINSON.<br>8th April 1853.             | 851. HENRY OLIVER ROBINSON, of 43, Moorgate Street, in the City of London, for an invention for—"Improvements in machinery for crushing sugar-canes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                         |
| HERBERT.<br>8th April 1853.              | 852. GEORGE HERBERT, of Summer Hill, Dartford, in the County of Kent, for an invention for—"Improvements in constructing and mooring light vessels, buoys, and other similar floating bodies."<br><i>Letters Patent sealed.</i>                                                                                                                                                |
| FARRAR.<br>8th April 1853.               | 853. JOSHUA FARRAR, of Marsden, in the County of York, Millowner, for an invention for—"Improvements in the treatment of flax, line, grasses, and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                                  |
| TAYLOR.<br>8th April 1853.               | 854. STEPHEN TAYLOR, of New York, in the United States of America, Gentleman, for an invention for—"Improved machinery for weaving seamless goods."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                  |
| GOBLE.<br>9th April 1853.                | 855. GEORGE FREDERIC GOBLE, of 15, Fish Street Hill, in the City of London, Master Mariner, for an invention for—"Improvements in machinery to be actuated by water or air."<br><i>Letters Patent sealed.</i>                                                                                                                                                                  |
| SEARBY.<br>9th April 1853.               | 856. GEORGE SEARBY, of No. 9, Markham Street, Chelsea, in the County of Middlesex, for an invention for—"Improvements in machinery for cutting, carving, and engraving wood, stone, metal, and other suitable materials."<br><i>Provisional protection NOT granted.</i>                                                                                                        |
| TAYLOR.<br>9th April 1853.               | 857. HERBERT TAYLOR, of Mark Lane, in the City of London, Merchant, for an invention for—"Improvements in ornamenting surfaces or fabrics, applicable to various useful purposes, such as for covers of furniture, imitation tapestry, carpets, or hangings."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                        |
| IGLESIA.<br>9th April 1853.              | 858. ADOLPHE MARIUS ALEXANDRE IGLESIA, of Russell Place, Fitzroy Square in the County of Middlesex, Mechanic, for an invention for—"Improvements in producing ornamental glass surfaces."<br><i>Letters Patent sealed.</i>                                                                                                                                                     |
| CRESSON.<br>9th April 1853.              | 859. WILLIAM PENN CRESSON, of Philadelphia, United States, but now residing at George Street, Portman Square, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in lathes, and parts connected therewith, for the purpose of reducing and smoothing the surfaces of certain metal wares."— <i>A communication.</i><br><i>Letters Patent sealed.</i> |
| GIBSON.<br>11th April 1853.              | 860. JOHN BOYDELL GIBSON, of Leicester Square, in the County of Middlesex, Army Saddler, for an invention for—"Improvements in saddlery and harness."<br><i>Provisional protection only.</i>                                                                                                                                                                                   |
| BOAKE.<br>REILY.<br>11th April 1853.     | 861. JOHN FULLER BOAKE, of the City of Dublin, Lampist to the Great Southern and Western, Railway of Ireland, and JOHN REILY, of the City of Dublin, Mechanic, for an invention for—"Improvements in signal-posts for railways, and apparatus connected therewith."<br><i>Letters Patent sealed.</i>                                                                           |
| RUGGLES.<br>SERRELL.<br>11th April 1853. | 862. ROBERT BOSTWICK RUGGLES, of Paterson, in the State of New Jersey, and LEMUEL WRIGHT SERRELL, of the City of New York, both in the United States of America, for an invention for—"Improvements in machinery for beating gold and other laminæ of metal."<br><i>Letters Patent sealed.</i>                                                                                 |



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| GARRARD.<br>GARRARD.<br>11th April 1853.             | 863. ROBERT GARRARD and JOHN GARRARD, both of Loman Street, in the Borough of Southwark, Japan Hat Manufacturers, for an invention for—"Improvements in bonnets." <i>Provisional protection only.</i>                                                                                                                                                                                                                           |
| URQUHART.<br>11th April 1853.                        | 864. WILLIAM URQUHART, of Greet Queen Street, Lincoln's Inn Fields, in the County of Middlesex, for an invention for—"Improvements in the manufacture of printer's type and other articles used in letterpress printing." <i>Letters Patent sealed.</i>                                                                                                                                                                         |
| PALMER.<br>11th April 1853.                          | 865. WILLIAM RUSSELL PALMER, of Elizabeth City, State of North Carolina, and in the United States of America, at present residing in the City and State of New York, for an invention for—"Improvements in the construction and arrangement of machines for the application of horse-power, which he designates as 'Palmer's improved horse-power.'" <i>Letters Patent sealed.</i>                                              |
| PALMER.<br>11th April 1853.                          | 866. WILLIAM RUSSELL PALMER, of Elizabeth City, Pasquotunk County, North Carolina, in the United States, now residing in the City and State of New York, for an invention for—"Improvements in machines for threshing seeds and grains, and for cleaning them from the straw and chaff after they are threshed, which he designates as 'Palmer's American seed and grain thresher and winnower.'" <i>Letters Patent sealed.</i> |
| DONALD.<br>11th April 1853.                          | 867. HUGH DONALD, of the firm of Craig and Donald, of Johnstone, in the County of Renfrew, North Britain, Engineer, for an invention for—"Improvements in machinery for cutting and uniting metals." <i>Provisional protection only.</i>                                                                                                                                                                                        |
| CAMPBELL.<br>11th April 1853.                        | 868. WILLIAM MUIR CAMPBELL, of Glasgow, in the County of Lanark, North Britain, Furnace Builder, for an invention for—"Improvements in earthenware kilns." <i>Provisional protection only.</i>                                                                                                                                                                                                                                  |
| NICOLL.<br>11th April 1853.                          | 869. DONALD NICOLL, of the firm of H. J. and D. Nicoll, of 114, 116, 118, and 120, Regent Street, for an invention for—"Improvements in garments, and in sewing or uniting the seams of the same." <i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                                        |
| RUSSELL.<br>M <sup>C</sup> TURK.<br>12th April 1853. | 870. SAMUEL RUSSELL and ROBERT MURRAY M <sup>C</sup> TURK, of Sheffield, in the County of York, Table Knife Manufacturers, for an invention for—"Improvements in metallic handles for table cutlery, daggers, and such like instruments." <i>Letters Patent sealed; specification filed by order.</i>                                                                                                                           |
| BLAKE.<br>12th April 1853.                           | 871. HENRY BLAKE, of Brighton, in the County of Sussex, Railway Carriage Builder, for an invention for—"Improvements in railway wheels." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                          |
| BROOMAN.<br>12th April 1853.                         | 872. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in grinding and pulverizing gums, gum resins, and other drugs and articles of similar character."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                         |
| TURIFF.<br>12th April 1853.                          | 873. ALEXANDER TURIFF, of Paisley, in the County of Renfrew, North Britain, Engineer, for an invention for—"Improvements in the prevention of accidents on railways." <i>Provisional protection only.</i>                                                                                                                                                                                                                       |
| HARMAN.<br>12th April 1853.                          | 874. HENRY WILLIAM HARMAN, of Northfleet Dockyard, in the County of Kent, Civil Engineer, for an invention for—"Improvements in steam engines." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                   |
| TAYLOR.<br>BROWN.<br>BROWN.<br>12th April 1853.      | 875. JAMES TAYLOR, of Carlisle, in the County of Cumberland, Engineer, ISAAC BROWN, of the same place, Merchant and Field Seedsman, and JOHN BROWN, of Oxford Street, in the County of Middlesex, Silk Mercer, for an invention for—"Improvements in the manufacture or production of charred peat." <i>Letters Patent sealed; no specification filed.</i>                                                                      |
| MONDOLLOT.<br>12th April 1853.                       | 876. AUGUSTE MONDOLLOT, of the firm of Mondollet Frères, of Paris, in the Empire of France, Soda-water and Soda-water apparatus Manufacturers, for an invention for—"Improvements in filling vessels with aerated waters, and the apparatus employed therein."— <i>A communication.</i> <i>Provisional protection only.</i>                                                                                                     |
| EDWARDS.<br>12th April 1853.                         | 877. DOWNES EDWARDS, of Ravenscliff, Douglas, Isle of Man, for an invention for—"Improvements in signal apparatus for railways." <i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                                                                                                          |



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| GREENWOOD.<br>12th April 1853.                | 878. THOMAS GREENWOOD, of 11, Little Alie Street, Goodman's Fields, in the County of Middlesex, for an invention for—"Improvements in evaporating saccharine fluids."<br><i>Letters Patent sealed.</i>                                                                                                       |
| PIGOT.<br>12th April 1853.                    | 879. RICHARD GREVILLE PIGOT, of 5, George Street, Croom's Hill, Greenwich, in the County of Kent, for an invention for—"Improvements in caltraps for military purposes."<br><i>Provisional protection only.</i>                                                                                              |
| VERDIÉ.<br>12th April 1853.                   | 880. FRANÇOIS FÉLIX VERDIÉ, Manufacturer, of Lorette, department of Loire, in the French Empire, for an invention for—"Certain improvements in welding cast steel with iron, steel, cast iron, and other metals."<br><i>Letters Patent sealed.</i>                                                           |
| KAYE.<br>OPENSHAW.<br>12th April 1853.        | 881. ROBERT JOHN KAYE, of Bury, in the County of Lancaster, Letterpress Printer, and JOHN ORMROD OPENSHAW, of Roach Mount, near Bury, in the County of Lancaster, Woollen Manufacturer, for an invention for—"Improvements in obtaining motive-power by electro-magnetism."<br><i>Letters Patent sealed.</i> |
| CUNNINGTON.<br>12th April 1853.               | 882. ELIZA CUNNINGTON, of Devizes, in the County of Wilts, Spinster, for an invention for—"Improvements in the decoration of furniture, panels, and other surfaces."<br><i>Letters Patent sealed.</i>                                                                                                        |
| SMITH.<br>12th April 1853.                    | 883. JOHN SMITH, of Bartholomew Close, in the City of London, Patent Door-spring maker, for an invention for—"An improved mode of suspending carriage-bodies."<br><i>Letters Patent sealed.</i>                                                                                                              |
| NEWTON.<br>12th April 1853.                   | 884. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in steam-boilers, and in the mode of supplying the same with water."<br>—A communication.<br><i>Letters Patent sealed.</i>                  |
| ARCHER.<br>13th April 1853.                   | 885. ALEXANDER EDWARD DUDLEY KNOX ARCHER, Clerk to William Betts, of No. 1, Wharf Road, City Road, in the County of Middlesex, Capsule Manufacturer, for an invention for—"Improvements in apparatus for applying metallic capsules."<br><i>Provisional protection only.</i>                                 |
| CLAYTON.<br>SHUTTLEWORTH.<br>13th April 1853. | 886. NATHANIEL CLAYTON and JOSEPH SHUTTLEWORTH, of the Stamp End Iron Works, in the Town and County of Lincoln, Agricultural Engineers, for an invention for—"An improvement in portable and locomotive steam-engines."<br><i>Letters Patent sealed.</i>                                                     |
| ELLIOT.<br>RUSSELL.<br>13th April 1853.       | 887. GEORGE ELLIOT and WILLIAM RUSSELL, both of St. Helens, in the County of Lancaster, Manufacturing Chemists, for an invention for—"Improvements in the manufacture of alkali."<br><i>Letters Patent sealed.</i>                                                                                           |
| PEARCE.<br>13th April 1853.                   | 888. WILLIAM PEARCE, of Arlington Street, Myddelton Square, in the County of Middlesex, for an invention for—"Improvements in the construction of locomotive-engines, parts of which improvements are applicable to other engines."<br>—A communication.<br><i>Provisional protection only.</i>              |
| EDWARDS.<br>13th April 1853.                  | 889. THOMAS EDWARDS, of the Islington Foundry, Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in steam-engines."<br><i>Letters Patent sealed.</i>                                                                                                                        |
| NOBLE.<br>13th April 1853.                    | 890. JAMES NOBLE, of Leeds, in the County of York, Manufacturer, for an invention for—"Improvements in preparing cotton and other fibres."<br><i>Letters Patent sealed.</i>                                                                                                                                  |
| HEBSON.<br>13th April 1853.                   | 891. DOUGLAS HEBSON, of 1, Dale Street, Liverpool, in the County of Lancaster, for an invention for—"Improvements in working the air-pumps of steam engines."<br><i>Letters Patent sealed.</i>                                                                                                               |
| BURDEN.<br>13th April 1853.                   | 892. FRANCIS BURDEN, of Belfast, in the County of Antrim, Chemical Manufacturer, for an invention for—"Improvements in treating rovings for spinning."<br><i>Provisional protection only.</i>                                                                                                                |
| BOWDITCH.<br>13th April 1853.                 | 893. WILLIAM RENWICK BOWDITCH, Clerk of Saint Andrew's, Wakefield, in the county of York, for an invention for—"Improvements in purifying water."<br><i>Provisional protection only.</i>                                                                                                                     |
| NOBLE.<br>13th April 1853.                    | 894. JAMES NOBLE, of Leeds, in the County of York, Manufacturer, for an invention for—"Improvements in preparing cotton and other fibres."<br><i>Letters Patent sealed.</i>                                                                                                                                  |



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| CLIFFORD.<br>13th April 1853.             | 895. CHARLES CLIFFORD, of 5, Inner Temple Lane, for an invention for—"Improvements in apparatus for lowering boats evenly, and preventing them filling with water."<br><i>Letters Patent sealed.</i>                                                                                                  |
| HINKS.<br>WELLS.<br>14th April 1853.      | 896. JOHN HINKS and GEORGE WELLS, of Birmingham, in the County of Warwick, Manufacturers and Co-partners, for an invention for—"An improvement or improvements in certain kinds of boxes."<br><i>Letters Patent sealed.</i>                                                                           |
| PRESTON.<br>14th April 1853.              | 897. THOMAS LOVELL PRESTON, of Birmingham, in the County of Warwick, Machinist, for an invention for—"An improvement or improvements in cutting out and piercing metals."<br><i>Letters Patent sealed.</i>                                                                                            |
| ROBINSON.<br>14th April 1853.             | 898. MOSES ROBINSON, of Brussels, in the Kingdom of Belgium, for an invention for—"Certain improved means for preventing accidents on railways."<br><i>Complete specification ; Letters Patent sealed.</i>                                                                                            |
| DUMÉRY.<br>14th April 1853.               | 899. CONSTANT JOUFFROY DUMÉRY, of Paris, in the Empire of France, and of 16, Castle Street, Holborn, in the County of Middlesex, for an invention for—"Improvements in the manufacture of paste and enamel buttons."<br><i>Letters Patent sealed.</i>                                                 |
| LOWE.<br>14th April 1853.                 | 900. CHARLES LOWE, of Sheepy Hall, in Sheepy Magna, in the County of Leicester, Corn Miller, for an invention for—"Improvements in mills for grinding wheat and other grain."<br><i>Letters Patent sealed.</i>                                                                                        |
| CHADWICK.<br>DICKINS.<br>14th April 1853. | 901. JOHN CHADWICK, of Manchester, in the County of Lancaster, Silk Manufacturer, and THOMAS DICKINS, of the Spring Vale Works, near Middleton, in the County of Lancaster, Silk Dyer, for an invention for—"Improvements in the production of raw and thrown silk."<br><i>Letters Patent sealed.</i> |
| BETHELL.<br>14th April 1853.              | 902. JOHN BETHELL, of No. 8, Parliament Street, Westminster, Gentleman, for an invention for—"Improvements in the manufacture of flax."<br><i>Letters Patent sealed.</i>                                                                                                                              |
| LAYCOCK.<br>14th April 1853.              | 903. WILLIAM LAYCOCK, of Birkenhead, Gentleman, for an invention for—"Improvements in the manufacture of metallic casks and vessels."<br><i>Letters Patent sealed ; specification filed by order.</i>                                                                                                 |
| ADAMSON.<br>14th April 1853.              | 904. JOSEPH ADAMSON, of Leeds, in the County of York, Engineer, for an invention for—"Improvements in flushing apparatus and in water-closets."<br><i>Letters Patent sealed.</i>                                                                                                                      |
| HAIGH.<br>14th April 1853.                | 905. THOMAS HAIGH, of Skircoat, in the Parish of Halifax, in the West Riding of the County of York, for an invention for—"The cleansing of pans and other culinary utensils."<br><i>Provisional protection only.</i>                                                                                  |
| DUNCAN.<br>14th April 1853.               | 906. JOHN WALLACE DUNCAN, of Grove End Road, St. John's Wood, in the County of Middlesex, Gentleman, for an invention for—"Certain new combinations of gutta-percha with other materials, and the method of applying such for use."<br><i>Letters Patent sealed.</i>                                  |
| GUY.<br>14th April 1853.                  | 907. ALFRED GUY, of Upper Rosoman Street, in the County of Middlesex, Gas-fitter, for an invention for—"An improved filter."<br><i>Provisional protection only.</i>                                                                                                                                   |
| GREEN.<br>NEWMAN.<br>14th April 1853.     | 908. CHARLES GREEN and JAMES NEWMAN, of Birmingham, for an invention for—"Improvements in the manufacture of wheels."<br><i>Letters Patent sealed.</i>                                                                                                                                                |
| WYBURN.<br>14th April 1853.               | 909. ROBERT WYBURN, of East Street, Taunton, in the County of Somerset, for an invention for—"Improvements in the construction of easy chairs."<br><i>Letters Patent sealed.</i>                                                                                                                      |
| OGDEN.<br>14th April 1853.                | 910. WILLIAM OGDEN, of Oldham, in the County of Lancaster, Manufacturer, for an invention for—"A certain improvement or improvements applicable to carding-engines used for carding cotton-wool and other fibrous material."<br><i>Letters Patent sealed.</i>                                         |
| JONES.<br>14th April 1853.                | 911. WILLIAM JOHN THOMAS JONES, of 10, Palace Street, Pimlico, for an invention for—"Improvements in steam-engine governors."<br><i>Letters Patent sealed ; no specification filed.</i>                                                                                                               |
| ZENNER.<br>14th April 1853.               | 912. DAVID ZENNER, of the Borough and County of Newcastle-upon-Tyne, Chemist, for an invention for—"Improvements in the treatment of ores and other substances containing metals, to obtain products therefrom, and the apparatus used therein."<br><i>Letters Patent sealed.</i>                     |



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| <p>CRICHTON.<br/>14th April 1853.</p> <p>SERRUYS.<br/>14th April 1853.</p> <p>MANIQUET.<br/>14th April 1853.</p> <p>TITTERTON.<br/>14th April 1853.</p> <p>WILKINSON.<br/>15th April 1853.</p> <p>ALLEN.<br/>MURRELL.<br/>15th April 1853.</p> <p>LEWTHWAITE.<br/>15th April 1853.</p> <p>NEWTON.<br/>15th April 1853.</p> <p>DAVIS.<br/>16th April 1853.</p> <p>BAYLISS.<br/>16th April 1853.</p> <p>DUNNING.<br/>16th April 1853.</p> <p>SOUCHON.<br/>16th April 1853.</p> <p>COOKE.<br/>COOKE.<br/>16th April 1853.</p> <p>CATOR.<br/>16th April 1853.</p> <p>SIMPSON.<br/>16th April 1853.</p> <p>WILKS.<br/>16th April 1853.</p> | <p>913. ALEXANDER CRICHTON, of 4, Saint George's Terrace, Park Road, Liverpool, in the County of Lancaster, Engineer, for an invention for—"Improvements in the fittings of bilge pumps and injection cocks of iron steamers and sailing vessels."<br/><i>Letters Patent sealed.</i></p> <p>914. FRANÇOIS MARIE ANTOINE SERRUYS, of Bruxelles, in the Kingdom of Belgium, for an invention for—"Improvements in tanning."—<i>A communication from Herman De Bock, of Bruges, in Belgium.</i><br/><i>Letters Patent sealed.</i></p> <p>915. JEAN BAPTISTE MANIQUET, Manufacturer, of Paris, in the French Empire, for an invention for—"Certain improvements in machinery or apparatus for winding, cleaning, doubling, twisting, and spinning silk, cotton, wool, flax, hemp, and other filamentous materials."<br/><i>Letters Patent sealed.</i></p> <p>916. GEORGE TITTERTON, of No. 70, Margaret Street, Cavendish Square, in the County of Middlesex, Brush Maker, for an invention for—"Improvements in brushes."<br/><i>Letters Patent sealed.</i></p> <p>917. WILLIAM WILKINSON, of the Town and County of the Town of Nottingham, Framework Knitter, for an invention for—"An improvement or improvements in ropes, cords, lines, twines, and mill-bandings."<br/><i>Letters Patent sealed.</i></p> <p>918. WILLIAM ALLEN, of Westbourne Street, Pimlico, in the County of Middlesex, Wine Cooper, and WILLIAM MURRELL, of Grosvenor Road, Pimlico, in the same County, Whitesmith, for an invention for—"Improvements in the mode or modes of cleansing bottles or other similar articles."<br/><i>Letters Patent sealed.</i></p> <p>919. JOHN LEWTHWAITE, of Halifax, in the County of York, Gentleman, for an invention for—"Improvements in rollers or mountings for blinds, maps, and other like articles."<br/><i>Letters Patent sealed.</i></p> <p>920. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in treating refuse silk waste, and in converting it into a valuable product."—<i>A communication.</i><br/><i>Letters Patent sealed.</i></p> <p>921. PHILLIP DAVIS, of N° 263, Whitechapel Road, in the County of Middlesex, for an invention for—"An improved mode of constructing the breasting to the revolving drums or beaters of threshing-machines."<br/><i>Provisional protection only.</i></p> <p>922. SAMUEL BAYLISS, of Old Broad Street, in the City of London, in the County of Middlesex, for an invention for—"Improvements in consuming or preventing smoke and heating liquids."<br/><i>Letters Patent sealed.</i></p> <p>923. JOSEPH DUNNING, of No. 14, Regent Street, in the Parish of Saint James, in the City of Westminster, Architect, for an invention for—"An improvement in the construction of coke ovens."<br/><i>Complete specification ; Letters Patent sealed.</i></p> <p>924. JEAN MARIE SOUCHON, of Paris, in France, Chemist, for an invention for—"Improvements in the manufacture and purification of gas for illumination, and certain products therefrom, and in apparatus for that purpose."<br/><i>Letters Patent sealed.</i></p> <p>925. JOSEPH COOKE, of Birmingham, in the County of Warwick, Gilder, and WILLIAM COOKE, of Birmingham aforesaid, Machinist, for an invention for—"New or improved machinery for cutting or shaping corks and bungs."<br/><i>Letters Patent sealed.</i></p> <p>926. GEORGE ALBEMARLE CATOR, of Selby, in the County of York, Gentleman, for an invention for—"Improvements in machinery for preparing flax, hemp, and other vegetable fibrous substances for scutching or other manufacturing processes."<br/><i>Letters Patent sealed.</i></p> <p>927. ISAAC SIMPSON, of Preston, in the County of Lancaster, for an invention for—"Improvements in machinery for covering wire, silk, cotton, linen, wool, or any other flexible material, with wire plate, silk, cotton, linen, wool, or any other flexible material."<br/><i>Letters Patent sealed.</i></p> <p>928. HENRY WILKS, of Rotherham, in the County of York, Brass Worker, for an invention for—"Improvements in cocks."<br/><i>Letters Patent sealed.</i></p> |
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| STEPHENS.<br>18th April 1853.              | 929. WILLIAM WALKER STEPHENS, of Edinburgh, in the County of Edinburgh, in that part of the United Kingdom called Scotland, for an invention for—"The application of retorts in gas ovens or other ovens, and of gas ovens or other ovens which are constructed as retorts, to the process of improving iron and converting iron into steel."<br><i>Complete specification ; Letters Patent sealed.</i> |
| BEGBIE.<br>18th April 1853.                | 930. JAMES BEGBIE, of Haddington, in the County of East Lothian, North Britain, Carriage Builder, for an invention for—"Improvements in the construction of wheeled carriages."<br><i>Provisional protection only.</i>                                                                                                                                                                                  |
| STURGES.<br>18th April 1853.               | 931. RICHARD FORD STURGES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved apparatus for making vegetable and other infusions and solutions."<br><i>Letters Patent sealed.</i>                                                                                                                                                                           |
| WATTS.<br>18th April 1853.                 | 932. JOEL WATTS, of Dover Cottage, Sleaford Street, Battersea Fields, in the County of Surry, for an invention for—"Improvements in the construction of pistons of steam and other engines, applicable also to force pumps and lifting pumps."<br><i>Letters Patent sealed.</i>                                                                                                                         |
| McNAUGHTON.<br>18th April 1853.            | 933. WILLIAM McNAUGHTON, of Aberdeen, Manufacturer, for an invention for—"Improvements in printing yarns or worsteds for weaving carpets, also in printing carpets, woollen, silk, cotton, and other textile fabrics or fibrous substances."<br><i>Letters Patent sealed.</i>                                                                                                                           |
| ALLEN.<br>18th April 1853.                 | 934. HANS WALLACE ALLEN, Civil Engineer, of 98, Great Portland Street, Portland Place, London, and 19, Montpelier Terrace, Cheltenham, Gloucestershire, for an invention for—"A furnace, which he calls 'The Vestal Furnace,' for the carbonization of peat or turf, or other substances."<br><i>Provisional protection only.</i>                                                                       |
| FAWCETT.<br>FAWCETT.<br>18th April 1853.   | 935. WILLIAM FAWCETT and FRANCIS BEST FAWCETT, of Kidderminster, in the County of Worcester, Carpet Manufacturers, for an invention for—"Certain improvements in the manufacture of carpets."<br><i>Letters Patent sealed.</i>                                                                                                                                                                          |
| SCARLETT.<br>PASSMORE.<br>18th April 1853. | 936. JAMES SALTER SCARLETT, of Norwood, in the County of Surry, Gentleman, and WILLIAM SMALLCOMBE PASSMORE, of St. Anne's Road, Brixton, also in the County of Surry, Gentleman, for an invention for—"The application of a certain mineral to lamps, in lieu of cotton or other wicks."<br><i>Provisional protection only.</i>                                                                         |
| GONIN.<br>18th April 1853.                 | 937. JEAN JULES GONIN, of Paris, France, and 4, South Street, Finsbury, London, Dyer, for an invention for—"Improvements in disengaging silk of its gum."<br><i>Provisional protection only.</i>                                                                                                                                                                                                        |
| SICARDO.<br>19th April 1853.               | 938. FRANÇOIS GEORGE SICARAO, of Marseilles, (France), and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"A new rotary steam engine."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                          |
| NEWY.<br>19th April 1853.                  | 939. THOMAS NEWY, of No. 6, Garbett Street, Birmingham, in the County of Warwick, Steel Pen Tool Maker, for an invention for—"Improvements in fastenings for articles of dress."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                       |
| HALE.<br>19th April 1853.                  | 940. WILLIAM HALE, of Swan Walk, Chelsea, in the County of Middlesex, Engineer, for an invention for—"New kinds of fire-arms."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                         |
| BEAUVAIS.<br>19th April 1853.              | 941. LAMBERT ADOLPHE BEAUVAIS, of 30, Upper Charlotte Street, Fitzroy Square, for an invention for—"Improvements in machinery for obtaining wool, silk, and fibres from fabrics, and rendering them suitable to be again employed."<br><i>Letters Patent sealed.</i>                                                                                                                                    |
| CHATTERTON.<br>19th April 1853.            | 942. JOHN CHATTERTON, of Birmingham, in the County of Warwick, for an invention for—"Improvements in coating tubes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                   |
| SMITH.<br>19th April 1853.                 | 943. FREDERICK HENRY SMITH, of 264, Borough of Southwark, for an invention for—"Improvements in apparatus for cleansing the interior of tubular boilers and other hollow articles."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                    |
| FULLER.<br>19th April 1853.                | 944. JOHN FULLER, of Thomas Place, Thomas Street, Kennington, in the County of Surrey, Electrical Engineer, for an invention for—"Improvements in galvanic batteries."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                 |



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| BÖHRINGER.<br>CLEMM.<br>19th April 1853. | 945. CHRISTIAN BÖHRINGER and GUSTAVUS CLEMM, Directors of the Chemical Works, Wohlgelegen, near Mannheim and Heilbronn, in the Grand Duchy of Baden, and the Kingdom of Wurtemberg, in Germany, for an invention for—"Improvements in the manufacture of soda and potash."<br><i>Letters Patent sealed.</i> |
| DAY.<br>19th April 1853.                 | 946. THOMAS DAY, of Birmingham, in the County of Warwick, for an invention for—"A certain improvement in the manufacture of boots and shoes, whereby great ease is secured to the wearer."<br><i>Letters Patent sealed.</i>                                                                                 |
| VIVIAN.<br>19th April 1853.              | 947. EDWARD VIVIAN, of Torquay, in the County of Devon, Banker, for an invention for—"Improvements in cases for containing hats in churches and similar situations."<br><i>Provisional protection only.</i>                                                                                                 |
| VIVIAN.<br>19th April 1853.              | 948. EDWARD VIVIAN, of Torquay, in the County of Devon, Banker, for an invention for—"Improvements in thermometers."<br><i>Provisional protection only.</i>                                                                                                                                                 |
| BLAIR.<br>19th April 1853.               | 949. ANDREW BLAIR, of Maryhill, in the County of Lanark, North Britain, Calico Printer, for an invention for—"Improvements in propelling vessels."<br><i>Letters Patent sealed.</i>                                                                                                                         |
| SMETHURST.<br>20th April 1853.           | 950. JOHN SMETHURST, of the City of Manchester, in the County of Lancaster, Packer, for an invention for—"An improved plan for packing yarn and other materials."<br><i>Letters Patent sealed.</i>                                                                                                          |
| WEIGHT.<br>20th April 1853.              | 951. SAMUEL WEIGHT, of Cheltenham, in the County of Gloucester, for an invention for—"Improvements in ventilating mines, sewers, or drains, ships, buildings generally, and other localities."<br><i>Letters Patent sealed.</i>                                                                             |
| CHAPPUIS.<br>20th April 1853.            | 952. EMILE CHAPPUIS, Fils, of Saint Mary Axe, London, for an invention for—"An improved apparatus for the diffusion of light, to be called the 'Myriastratic Reflector.'"<br><i>Letters Patent sealed.</i>                                                                                                  |
| McEVoy.<br>20th April 1853.              | 953. HENRY McEVoy, of Birmingham, in the County of Warwick, for an invention for—"Certain improvements in the construction and manufacture of door bolts."<br><i>Letters Patent sealed.</i>                                                                                                                 |
| FOSTER.<br>20th April 1853.              | 954. THOMAS COOKE FOSTER, of the Strand, in the County of Middlesex, Gentleman, for an invention for—"An improved reaping machine."<br><i>Provisional protection only.</i>                                                                                                                                  |
| BROOMAN.<br>20th April 1853.             | 955. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in inhaling-tubes."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                   |
| BROOMAN.<br>20th April 1853.             | 956. RICHARD ARCHIBALD BROOMAN, of the Firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in reaping and gathering machinery."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                  |
| HARRIS.<br>20th April 1853.              | 957. Sir WILLIAM SNOW HARRIS, of Plymouth, for an invention for—"Improvements in lightning conductors for ships and vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                              |
| DEALE.<br>21st April 1853.               | 958. ANTHONY DEALE, of No. 37, William Street, Hampstead Road, in the County of Middlesex, Gentleman, for an invention for—"Ocean floats," which are designed to save lives and light treasures from shipwreck."<br><i>Provisional protection only.</i>                                                     |
| DUNN.<br>21st April 1853.                | 959. THOMAS DUNN, of Windsor Bridge Iron Works, Pendleton, near Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in and applicable to boilers or apparatus for generating steam, and in apparatus connected therewith."<br><i>Letters Patent sealed.</i>        |
| REEVES.<br>21st April 1853.              | 960. CHARLES REEVES, junior, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in swords."<br><i>Letters Patent sealed.</i>                                                                                                                       |
| DURAN.<br>21st April 1853.               | 961. JUAN DURAN, of the Puerta del Sol, Madrid, in the Kingdom of Spain, Gentleman, for an invention for—"Obtaining and applying motive-power."<br><i>Complete specification; Letters Patent sealed.</i>                                                                                                    |



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| CARR.<br>21st April 1853.                | 962. HENRY CARR, of East Retford, in the County of Nottingham, Civil Engineer, for an invention for—"Certain improvements in the construction of railways."<br><i>Letters Patent sealed.</i>                                                                                                                                                     |
| PETRIE.<br>21st April 1853.              | 963. JAMES PETRIE, of Rochdale, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in steam engines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                             |
| HARRIS.<br>21st April 1853.              | 964. PHILIP HARRIS, of the Royal Marine Barracks, Chatham, in the County of Kent, First Lieutenant in Her Majesty's Royal Marine Forces, for an invention for—"Certain improvements in fire-arms."<br><i>Letters Patent sealed.</i>                                                                                                              |
| ROBJOHN.<br>21st April 1853.             | 965. WILLIAM ROBJOHN, of Islington, London, for an invention for—"An improved meter for measuring and indicating the measure of liquids."<br><i>Letters Patent sealed.</i>                                                                                                                                                                       |
| JOHNSON.<br>21st April 1853.             | 966. WILLIAM H. JOHNSON, of the Town of Granville, in the County of Hampden and State of Massachusetts, Machinist, for an invention for—"Sewing cloth, leather, and other materials."<br><i>Letters Patent sealed.</i>                                                                                                                           |
| NEWTON.<br>21st April 1853.              | 967. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery for bending wood or other materials."<br><i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                          |
| FINCH.<br>22nd April 1853.               | 968. THOMAS FREEMAN FINCH, of the City of Worcester, for an invention for—"Improvements in buttons."<br><i>Provisional protection only.</i>                                                                                                                                                                                                      |
| DAVIS.<br>22nd April 1853.               | 969. JAMES DAVIS, of Hemel Hempstead, in the County of Hertford, Engineer and Agricultural Implement Maker, for an invention for—"Improvements in the manufacture of thrashing machines."<br><i>Letters Patent sealed.</i>                                                                                                                       |
| SAGER.<br>22nd April 1853.               | 970. WILLIAM SAGER, of Seacombe, in the County of Chester, Merchant, for an invention for—"Certain improvements in machinery or apparatus for propelling vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                              |
| HUNTER.<br>22nd April 1853.              | 971. WILLIAM HUNTER, of Glasgow, in the County of Lanark, North Britain, Timber Merchant, for an invention for—"Improvements in cutting and planing wood and other substances."<br><i>Provisional protection only.</i>                                                                                                                           |
| ASQUITH.<br>ASQUITH.<br>22nd April 1853. | 972. WILLIAM ASQUITH and JOSEPH ASQUITH, both of Bagley Mills, Leeds, in the County of York, Cloth Dressers, for an invention for—"Cleansing, preening, and removing wool flocks, waste and refuse, from the cards, teazles, cylinder; raising gig and machinery used in the dressing of woollen cloths."<br><i>Provisional protection only.</i> |
| BEARD.<br>22nd April 1853.               | 973. WILLIAM BEARD, of the firm of Kirby, Beard, and Company, of Cannon Street, in the City of London, Pin and Needle Manufacturer, for an invention for—"Improvements in needles, and in the manufacture of the same."<br><i>Provisional protection only.</i>                                                                                   |
| MOTAY.<br>22nd April 1853.               | 974. CYPRIEN MARIE TESSIE DU MOTAY, of No. 24, Rue Fontaine St. George, Paris, Engineer and Chemist, for an invention for—"Improvements in preparing oils, and in apparatus for burning the same."<br><i>Letters Patent sealed.</i>                                                                                                              |
| DRIEU.<br>22nd April 1853.               | 975. JEROME ANDRÉ DRIEU, of Bowden, in the County of Chester, Machinist, for an invention for—"Improvements in cutting the pile of velvet, velveteens, and other piled fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                |
| ASTON.<br>GERMAINE.<br>23rd April 1853.  | 976. EDWARD ONSLOW ASTON and GEORGE GERMAINE, both of Mill Wall, in the County of Middlesex, Master Mariners, for an invention for—"Improvements in compositions for coating wood, metal, and other materials exposed to the action of sea water or the weather."<br><i>Letters Patent sealed.</i>                                               |
| TOMPKINS.<br>23rd April 1853.            | 977. FREDERICK TOMPKINS, of Manchester, in the County of Lancaster, Silk and Satin Finisher, Waterer, and Embosser, for an invention for—"Improvements in the mode or method of embossing and finishing woven fabrics, and in the machinery or apparatus employed therein."<br><i>Provisional protection only.</i>                               |
| KNOWLES.<br>23rd April 1853.             | 978. THOMAS KNOWLES, of Newton, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in the machinery or apparatus for picking warps."<br><i>Letters Patent sealed.</i>                                                                                                                                                  |
| WILSON.<br>23rd April 1853.              | 979. FREDERICK JOHN WILSON, of 32, Cadogan Place, Chelsea, in the County of Middlesex, for an invention for—"An improved wheelbarrow."<br><i>Letters Patent sealed.</i>                                                                                                                                                                          |



- HOULDSWORTH.  
23rd April 1853. 980. HENRY HOULDSWORTH, of the City of Manchester, in the County of Lancaster, Cotton Spinner, for an invention for—"Improvements in machinery for opening and preparing to be carded, combed, or drawn, cotton, silk-waste, tow, wool, or other fibrous substances." *Provisional protection NOT granted.*
- HOULDSWORTH.  
23rd April 1853. 981. HENRY HOULDSWORTH, of the City of Manchester, in the County of Lancaster, Cotton Spinner, for an invention for—"Improvements in machinery used for combing cotton, silk, silk-waste, flax, tow, wool and other fibrous substances." *Letters Patent sealed.*
- GEDDES.  
23rd April 1853. 982. JAMES GEDDES, of Glasgow, in the County of Lanark, North Britain, Boat Builder, for an invention for—"Improvements in oars." *Provisional protection only.*
- JOHNSON.  
23rd April 1853. 983. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in machinery for combing wool or other fibrous materials."—*A communication.* *Letters Patent sealed.*
- NAPIER.  
23rd April 1853. 984. JAMES NAPIER, of Partick, in the County of Lanark, Chemist, for an invention for—"Improvements in separating certain metals from their ores and alloys, and for obtaining certain products therefrom." *Letters Patent sealed.*
- WILSON.  
HATCHER.  
JACKSON.  
23rd April 1853. 985. GEORGE FERGUSON WILSON, of Belmont, Vauxhall, in the County of Surrey, Managing Director of Price's Patent Candle Company, WILLIAM HENRY HATCHER, of Manor Street, Old Kent Road, in the County of Kent, Engineer, and JOHN JACKSON, of Southville, Wandsworth Road, in the said County of Surrey, for an invention for—"Improvements in apparatus for manufacturing moulded candles." *Letters Patent sealed.*
- JOHNSON.  
23rd April 1853. 986. RICHARD JOHNSON, of Manchester, in the County of Lancaster, Wire-drawer, for an invention for—"Improvements in machinery or apparatus for drawing wire." *Letters Patent sealed.*
- O'CONNELL.  
25th April 1853. 987. EDWARD O'CONNELL, of Bury, in the County of Lancaster, Surveyor, for an invention for—"Improvements in the mode or method of feeding infants and invalids, and in apparatus connected therewith." *Letters Patent sealed.*
- HOOLE.  
25th April 1853. 988. HENRY ELLIOT HOOLE, of Sheffield, in the County of York, Merchant, for an invention for—"A self-acting speed-regulator and safety-break for railway carriages." *Provisional protection only.*
- DESBORDES.  
25th April 1853. 989. CHARLES LÉON DESBORDES, of Paris, in France, Engineer, for an invention for—"Improvements in instruments for measuring the pressure and temperature of air, steam, and other fluids." *Letters Patent sealed.*
- CHATTERTON.  
25th April 1853. 990. JOHN CHATTERTON, of Birmingham, in the County of Warwick, Agent, for an invention for—"An improvement or improvements in covers for wagons, carts, and other vehicles." *Letters Patent sealed.*
- DAVIES.  
25th April 1853. 991. ROBERT DAVIES, of Alisson Street, Birmingham, in the County of Warwick, Brick Maker, for an invention for—"An agricultural reaping machine." *Provisional protection only.*
- TILLIE.  
HENDERSON.  
25th April 1853. 992. WILLIAM TILLIE, of Glasgow, in the County of Lanark, North Britain, and JOHN HENDERSON, of the same place, for an invention for—"Improvements in printing shirting fabrics." *Letters Patent sealed and specification filed by order.*
- EMERY.  
25th April 1853. 993. JAMES EMERY, of Preston, in the County of Lancaster, for an invention for—"Improvements in the construction of gigs, dog carts, and other vehicles." *Letters Patent sealed.*
- JOHNSON.  
25th April 1853. 994. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in the means of retarding and stopping railway trains."—*A communication.* *Letters Patent sealed.*
- BERNARD.  
25th April 1853. 995. JULIAN BERNARD, of Guilford Street, Russell Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in casting metals, and in moulding or forming other materials." *Letters Patent sealed.*



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| SHEATH.<br>26th April 1853.                               | 996. ISAAC BRETNALL SHEATH, of Birmingham, in the County of Warwick, Gun Manufacturer, for an invention for—"Certain improvements in fire-arms."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                       |
| JOFFRIAUD.<br>RIVIÈRE.<br>26th April 1853.                | 997. JACQUES EMILE JOFFRIAUD, Mining Engineer, and RODOLPHE RIVIÈRE, Miner, both of Paris, in the Empire of France, for an invention for—"Certain improvements in machinery or apparatus for washing earths containing gold extracted from the bottoms of rivers or other waters."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                     |
| GEYELIN.<br>26th April 1853.                              | 998. GEORGE KENNEDY GEYELIN, of Camden Town, in the County of Middlesex, for an invention for—"Improvements in the manufacture of white oxide of zinc."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                |
| SLATE.<br>26th April 1853.                                | 999. ARCHIBALD SLATE, of Woodside Iron Works, near Dudley, in the County of Worcester, Civil Engineer, for an invention for—"An improved filter for water and other liquids."<br><i>Complete specification; protection for SIX months only.</i>                                                                                                                                                                                                                                                                         |
| HADDAN.<br>26th April 1853.                               | 1000. JOHN COOPE HADDAN, of Chelsea, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of cartridges, and of wads or wadding for fire-arms."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                     |
| PYM.<br>26th April 1853.                                  | 1001. JOHN PYM, of Pimlico, in the County of Middlesex, Gentleman, for an invention for—"Improvements in building materials."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                                                    |
| LE ROY.<br>LE ROY. PAVY.<br>26th April 1853.              | 1002. AUGUSTE and JEAN LE ROY and EUGÈNE PAVY, all of Paris, France, Manufacturers, and of 4, South Street, Finsbury, London, for an invention for—"Improvements in the production of lace and other fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                         |
| SCOTT.<br>26th April 1853.                                | 1003. URIAH SCOTT, of 155, Grove Street, Camden Town, in the County of Middlesex, for an invention for—"Improvements in the manufacture of tubular rods and rings for furniture."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                      |
| POOLE.<br>26th April 1853.                                | 1004. MOSES POOLE, of the Avenue Road, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in the manufacture of porcelain and like wares."<br><i>A communication. Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                 |
| JOHNSON.<br>27th April 1853.                              | 1005. WILLIAM JOHNSON, of Farnworth, near Bolton-le-Moors, in the County of Lancaster, Manager, for an invention for—"Improvements in machinery for preparing and spinning cotton and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                       |
| UNDERHAY.<br>27th April 1853.                             | 1006. FREDERICK GEORGE UNDERHAY, of 13, Wells Street, Gray's Inn Road, in the County of Middlesex, for an invention for—"Improvements in reaping and mowing machines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                 |
| FONVIELLE.<br>27th April 1853.                            | 1007. GEORGE FERDINAND DE FONVIELLE, of Marseilles, No. 13, Rue de la Darce, France, for an invention for—"A filtering-machine, which acts under water, and is applicable to the filtering of all liquids."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                            |
| LANGLOIS.<br>27th April 1853.                             | 1008. BENOIST MARIE ADOLPHE LANGLOIS, of Rue du Faubourg Poissoniere, Paris, for an invention for—"Improvements in instruments to be applied to the chimneys of gas-burners."<br><i>Partly a communication. Provisional protection only.</i>                                                                                                                                                                                                                                                                            |
| PLIMSOLL.<br>27th April 1853.                             | 1009. SAMUEL PLIMSOLL, of Fullwood, in the Township of Upper Hallam, in the Parish of Sheffield, in the West Riding of the County of York, Gentleman, for an invention for—"More thoroughly and effectually cleansing, extracting, and separating or fining ale, beer, porter, bitter beer, India pale ale, and other malt liquors, from the yeast, bottoms, barm, sediment, and other extraneous matters and impurities with which it may be in combination."<br><i>Complete specification; Letters Patent sealed.</i> |
| HETHERINGTON.<br>DUGDALE.<br>DUGDALE.<br>27th April 1853. | 1010. JOHN HETHERINGTON, of the City of Manchester, Machine Maker, and JOHN DUGDALE the younger, and EDWARD DUGDALE, both of Blackburn, Machine Makers, all in the County of Lancaster, for an invention for—"Improvements in constructing and applying models or patterns for moulding, preparatory to casting iron, brass, and other metals for various purposes."<br><i>Letters Patent sealed.</i>                                                                                                                   |
| DINNING.<br>27th April 1853.                              | 1011. JAMES DINNING, of the Town and County of Southampton, for an invention for—"Certain improvements in wash-stands and baths, part of which improvements are also applicable to table fountains."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                             |
| HOWSON.<br>27th April 1853.                               | 1012. RICHARD HOWSON, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in weavers' harness."<br><i>A communication. Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                           |



JOHNSON.  
27th April 1853.

1013. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for sustaining bodies in the water."—*A communication.*

*Provisional protection only.*

GALE.  
27th April 1853.

1014. JOSEPH WALTER GALE, of 5, Woburn Place, Russell Square, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the permanent way of railways."

*Letters Patent sealed.*

JOHNSON.  
27th April 1853.

1015. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in machinery or apparatus for marking, ruling, or ornamenting surfaces."—*A communication.*

*Letters Patent sealed.*

TURNER.  
HOLLOWAY.  
27th April 1853.

1016. GEORGE TURNER, of Bradley Terrace, Wandsworth Road, and ROBERT HOLLOWAY, of St. James Street, Hatcham New Town, Old Kent Road, for an invention for—"Improvements in the manufacture of unfermented bread, which improvements are also applicable to other purposes as a substitute for yeast."

*Letters Patent sealed.*

CRITCHLEY.  
27th April 1853.

1017. GEORGE CRITCHLEY, of Cheltenham, in the County of Gloucester, Whitesmith, for an invention for—"An improved apparatus for regulating the heat and supply of water in hot-water apparatus."

*Letters Patent sealed.*

PALIN.  
SIEVIER.  
27th April 1853.

1018. JOSEPH PALIN, of Liverpool, in the County of Lancaster, Wholesale Druggist, and ROBERT WILLIAM SIEVIER, of Upper Holloway, in the County of Middlesex, for an invention for—"Improvements in distillation, and in apparatus connected therewith, which apparatus is also applicable to other purposes in which substances are to be treated by the assistance of a vacuum."

*Provisional protection only.*

GROVES.  
27th April 1853.

1019. SAMUEL GROVES, of Great Marlborough Street, Regent Street, in the County of Middlesex, Organ-builder, for an invention for—"Improvements in pneumatic apparatus for pumping or forcing air."

*Provisional protection only.*

BRUCE.  
27th April 1853.

1020. JAMES ANDREW BRUCE, of Coleraine, in the County of Londonderry, Gentleman, for an invention for—"Certain improvements in the construction of hay-racks and other apparatus or apparatuses to contain fodder for horses and other cattle, and also in the method or methods of fastening horses or other cattle, to prevent their overcasting."

*Letters Patent sealed.*

CULPIN.  
27th April 1853.

1021. THOMAS CULPIN, of 20, George Street, Greenwich, in the County of Kent, Engineer, for an invention for—"Improvements in steam-boilers and in the appendages thereto."

*Letters Patent sealed.*

WILLIAMS.  
27th April 1853.

1022. WELLINGTON WILLIAMS, of Gutter Lane, in the City of London, Manufacturer, for an invention for—"A new combination of materials suitable for the manufacture of boxes, cases, trays, and other like articles."

*Provisional protection only.*

REID.  
27th April 1853.

1023. WILLIAM REID, of University Street, in the County of Middlesex, Electric Telegraph Engineer, for an invention for—"Improvements in apparatus for testing the insulation of electric telegraph wires."

*Letters Patent sealed.*

GATLING.  
27th April 1853.

1024. RICHARD JORDAN GATLING, of Indianapolis, Marion Co., Indiana, in the United States of America, Gentleman, for an invention for—"Distributing power to machine shops, factories, and other places."

*Letters Patent sealed.*

KINGSTON.  
27th April 1853.

1025. JOHN FILMORE KINGSTON, of Carrol County, in the state of Maryland, United States of America, Engineer, for an invention for—"Improvements in galvanic or voltaic batteries."

*Provisional protection only.*

THOMAS.  
27th April 1853.

1026. WILLIAM FREDERICK THOMAS, of Porchester Terrace, Bayswater, in the County of Middlesex, for an invention for—"Improvements in apparatus for sewing or stitching."

*Letters Patent sealed.*

ANDERSON.  
ANDERSON.  
27th April 1853.

1027. ALFRED GEORGE ANDERSON and JOHN BARKER ANDERSON, both of Great Suffolk Street, Southwark, in the County of Surrey, Soap Manufacturers, for an invention for—"Improvements in the treatment of certain saponaceous compounds obtained in the manufacture of soap."

*Letters Patent sealed.*



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| HETHERINGTON.<br>28th April 1853.                  | 1028. JOSEPH HETHERINGTON, of the City of Manchester, in the County of Lancaster, Machine Maker, for an invention for—"Certain improvements in reels for reeling or winding yarns."<br><i>Letters Patent sealed.</i>                                                                                                                       |
| HETHERINGTON.<br>28th April 1853.                  | 1029. JOHN HETHERINGTON, of the City of Manchester, in the County of Lancaster, Machine Maker, for an invention for—"Certain improvements in machinery for combing cotton-wool, silk-waste, flax, tow, and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                     |
| BIRD.<br>28th April 1853.                          | 1030. EDWARD BIRD, of Birmingham, in the County of Warwick, Gentleman, for an invention for—"An improvement or improvements in the construction of certain kinds of vehicles."<br><i>Letters Patent sealed.</i>                                                                                                                            |
| BERRY.<br>BOOTH.<br>28th April 1853.               | 1031. JAMES BERRY, of Horwich, near Bolton, and THOMAS BOOTH, of Chorley, both in the County of Lancaster, Machine Printers, for an invention for—"Improvements in machinery or apparatus for printing or staining woven fabrics and paper."<br><i>Letters Patent sealed.</i>                                                              |
| FAIRBAIRN.<br>KASELOWSKY.<br>28th April 1853.      | 1032. PETER FAIRBAIRN, of Leeds, in the County of York, Machinist, and FERDINAND KASELOWSKY, of the City of Berlin, Engineer, for an invention for—"Improvements in machinery for drawing, roving, and spinning flax, hemp, and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                |
| SITWELL.<br>28th April 1853.                       | 1033. WILLIAM HURT SITWELL, of Sydenham, in the County of Kent, Esquire, for an invention for—"Improvements in projectiles for cannon and fire-arms."<br><i>Letters Patent sealed.</i>                                                                                                                                                     |
| LILLIE.<br>28th April 1853.                        | 1034. SIR JOHN SCOTT LILLIE, Companion of the Most Honourable Order of the Bath, of 4, South Street, Finsbury, London, for an invention for—"Improvements in roads, floors, footways, and other like surfaces."<br><i>Letters Patent sealed.</i>                                                                                           |
| GILBEE.<br>28th April 1853.                        | 1035. WILLIAM ARMAND GILBEE, of the English and Foreign Patent Office, 4, South Street, Finsbury London, and 39, Rue de l'Echiquier, Paris, for an invention for—"Improvements in apparatus for heating."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                        |
| REVIS.<br>28th April 1853.                         | 1036. THOMAS REVIS, late of Cambridge, in the County of Cambridge, but now of Stockwell, in the County of Surrey, Agricultural Machinist, for an invention for—"Improved single seed drilling or dibbling machinery."<br><i>Letters Patent sealed.</i>                                                                                     |
| DAY.<br>29th April 1853.                           | 1037. GEORGE THOMAS DAY, of Burghfield Hill, in the County of Berkshire, Gentleman, for an invention for—"Improvements in travelling packages."<br><i>Letters Patent sealed; specification filed by order.</i>                                                                                                                             |
| PENNELL.<br>29th April 1853.                       | 1038. THOMAS PENNELL, of Birmingham, in the County of Warwick, Gun-maker, for an invention for—"Improvements in the construction of revolving or repeating fire-arms, and in loading the same."<br><i>Provisional protection only.</i>                                                                                                     |
| JOUBERT.<br>FRICAS.<br>KÖHLER.<br>29th April 1853. | 1039. CHARLES AUGUSTE JOUBERT, of Paris, in France, Merchant, and LÉON JACQUES FRICAS, also of Paris, Merchant, and JULES CÉSAR KÖHLER, also of Paris, Engineer, for an invention for—"Improved busks for stays."<br><i>Provisional protection only.</i>                                                                                   |
| DAVISON.<br>HORROCKS.<br>29th April 1853.          | 1040. ROBERT DAVISON, of No. 33, Mark Lane, in the City of London, Civil Engineer, and JAMES SCOTT HORROCKS, of Heaton Norris, in the County of Lancaster, Gentleman, for an invention for—"Certain improvements in the means of conveying and distributing or separating granular and other substances."<br><i>Letters Patent sealed.</i> |
| BANFIELD.<br>29th April 1853.                      | 1041. THOMAS COLLINS BANFIELD, of No. 18, Queen's Square, Westminster, in the County of Middlesex, Esquire, for an invention for—"Machinery for cutting or chopping roots, plants, or other similar substances."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                 |
| BANFIELD.<br>29th April 1853.                      | 1042. THOMAS COLLINS BANFIELD, of No. 18, Queen's Square, Westminster, in the County of Middlesex, for an invention for—"Drying and preserving vegetable or other saccharine plants."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                            |
| VIGOUREUX.<br>29th April 1853.                     | 1043. JACQUES STANISLAS VIGOUREUX, of Rheims, in the Empire of France, for an invention for—"Certain improvements in the combing of wool and other fibrous materials."<br><i>Letters Patent sealed.</i>                                                                                                                                    |



MACPHERSON.  
29th April 1853.

MATHER.  
29th April 1853.

WITTHAFF.  
29th April 1853.

DRAKE.  
29th April 1853.

KEALY.  
29th April 1853.

BRISTOW.  
ATTWOOD.  
29th April 1853.

ADAMS.  
30th April 1853.

BARRETT.  
30th April 1853.

SMITH.  
30th April 1853.

GRIMSHAW.  
30th April 1853.

BALMFORTH.  
BALMFORTH.  
BALMFORTH.  
2nd May 1853.

SMITH.  
2nd May 1853.

GREENWOOD.  
2nd May 1853.

JENNINGS.  
2nd May 1853.

KINGSTON.  
2nd May 1853.

HEYWOOD.  
2nd May 1853.

REEVES.  
2nd May 1853.

1044. JAMES MACPHERSON, of Manchester, in the County of Lancaster, Machine Maker, for an invention for—"Certain improvements in looms for weaving."

*Provisional protection only.*

1045. COLIN MATHER, of Salford Iron Works, Salford, for an invention for—"Improvements in apparatus used in bleaching."

*Letters Patent sealed.*

1046. HENRY WITTHAFF, of 5, Sidney Street, Oxford Road, Manchester, in the County of Lancaster, for an invention for—"Improvements in filters."—*A communication.*

*Provisional protection only.*

1047. OLIVER P. DRAKE, of Massachusetts, in the United States of America, for an invention for—"A new or improved apparatus for vaporizing benzole or other suitable volatile hydro-carbon and mixing it with atmospheric air, so that the mixture may be burnt for the purposes of illumination or otherwise."

*Letters Patent sealed.*

1048. JOHN KEALY, of Oxford Street, in the County of Middlesex, Agricultural Implement Maker, for an invention for—"Improvements in machinery for mowing."

*Letters Patent sealed.*

1049. JAMES BRISTOW, of Bouverie Street, in the City of London, Miller, and HENRY ATTWOOD, of Holland Street, Blackfriars Road, in the County of Surrey, Engineer, for an invention for—"Improvements in the means of consuming smoke."

*Letters Patent sealed.*

1050. CHARLES ADAMS, of No. 1, Lillington Street, in the Parish of St. John's Westminster, and County of Middlesex, Plumber and Glazier, for an invention for—"A new arrangement of valves for the supply of water to and from cisterns and other receptacles, and for a new float-valve."

*Provisional protection only.*

1051. BARNABAS BARRETT, of Ipswich, Sculptor, for an invention for—"Improvements in the treatment of natural and artificial stone, and of articles composed of porous cements or plaster, for the purpose of hardening and colouring the same."

*Letters Patent sealed.*

1052. JOHN SMITH, of No. 4, Albert Terrace, in the Parish of Aston, in the County of Warwick, Engineer, for an invention for—"An improvement in machines for cutting chaff, straw, gorse, and other similar substances."

*Provisional protection only.*

1053. WESTON GRIMSHAW, of Mosley, in the County of Antrim, Ireland, Flax Spinner, for an invention for—"Certain improvements in slubbing and roving frames for preparing for spinning cotton, flax, and other fibrous substances."

*Letters Patent sealed.*

1054. JOHN BALMFORTH, WILLIAM BALMFORTH, and THOMAS BALMFORTH, all of Clayton, in the County of Lancaster, Ironmasters, for an invention for—"Improvements in steam-hammers."

*Letters Patent sealed.*

1055. JOHN SMITH, of No. 4, Albert Terrace, in the Parish of Aston, in the County of Warwick, Engineer, for an invention for—"An improved flooring-cramp and lifting-jack."

*Provisional protection only.*

1056. JAMES GREENWOOD, of New Accrington, for an invention for—"An improvement in fixing mordants on fabrics."

*Letters Patent sealed.*

1057. HENRY CONSTANTINE JENNINGS, of 8, Great Tower Street, in the City of London, for an invention for—"Improvements in the manufacture of soap."

*Letters Patent sealed.*

1058. JOHN FILMORE KINGSTON, of Carrol County, Maryland, in the United States of America, Engineer, for an invention for—"Improvements in reaping and mowing machinery."

*Letters Patent sealed.*

1059. EDWIN HEYWOOD, of Glusburn, near Keighley, in the County of York, Foreman to Messrs. Bairstow, of Sutton Mills, near Keighley aforesaid, for an invention for—"Improvements in apparatus for actuating and regulating the throttle-valves of steam-engines."

*Letters Patent sealed; no specification filed.*

1060. JAMES REEVES, of Bridgwater Gardens, Barbican, in the City of London, gold and silver turner, for an invention for—"Improved machinery for forging, stamping, crushing, or otherwise treating, metals, ores, and other similar materials."

*Letters Patent sealed.*



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| MURTON.<br>LANGSHAW.<br>2nd May 1853. | 1061. GEORGE MURTON, of Eagley Mills, near Bolton, in the County of Lancaster, Manufacturer, and WILLIAM HATTON LANGSHAW, of the same place, Manager, for an invention for—"Certain improvements in stretching, dressing, and finishing cotton and linen yarns or threads, and in the machinery or apparatus connected therewith."<br><i>Letters Patent sealed.</i> |
| BELLFORD.<br>2nd May 1853.            | 1062. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the extraction and manufacture of sugar and of saccharine matters."<br><i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                             |
| READING.<br>2nd May 1853.             | 1063. DANIEL READING, of the firm of Whatton and Reading, of Chambers Street, Minories, in the County of Middlesex, Block Maker, for an invention for—"Improvements in bearings for axles and in axle-boxes and bushes."<br><i>Provisional protection only.</i>                                                                                                     |
| MONFRANT.<br>2nd May 1853.            | 1064. FRANÇOIS MONFRANT, of Paris, in the Empire of France, now residing in the Haymarket, in the City of Westminster, Coal Merchant, for an invention for—"Improvements in lubricating materials."<br><i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                        |
| BELLFORD.<br>2nd May 1853.            | 1065. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn (City), London, Patent Agent, for an invention for—"Improvements in sawing-machines for slitting or re-sawing plank and other timber by means of circular saws."<br><i>A communication.</i> <i>Letters Patent sealed.</i>                                                                    |
| FAURE.<br>2nd May 1853.               | 1066. AMBROISE MAURICE CHRISTOPHE CLAUDE FAURE, of La Plaine (Hautes Alpes), in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"Certain improvements in the manufacture of geographic and other maps."<br><i>Provisional protection only.</i>                                                                         |
| RADUNSKY.<br>2nd May 1853.            | 1067. CHRISTIAN RADUNSKY, of Cockspur Street, in the County of Middlesex, for an invention for—"Certain improvements in electro-voltaic apparatus."<br><i>A communication.</i> <i>Letters Patent sealed; no specification filed.</i>                                                                                                                                |
| NEWTON.<br>2nd May 1853.              | 1068. MARK NEWTON, of Tottenham, in the County of Middlesex, Builder, for an invention for—"Certain improvements in the construction of carriages, and in the means of preventing the overturning of the same when horses take fright."<br><i>A communication.</i> <i>Provisional protection only.</i>                                                              |
| WOOD.<br>2nd May 1853.                | 1069. JOSEPH THOMAS WOOD, of Holywell Street, Strand, in the County of Middlesex, for an invention for—"Improvements in the manufacture of boxes, such as have been hitherto made of paste-board."<br><i>Provisional protection only.</i>                                                                                                                           |
| MANE.<br>2nd May 1853.                | 1070. HONORÉ MANE, of 15, Arundel Street, Strand, in the County of Middlesex, for an invention for—"Improvements in steam-engines."<br><i>Provisional protection only.</i>                                                                                                                                                                                          |
| CLARIDGE.<br>3rd May 1853.            | 1071. THOMAS CLARIDGE, of Bilston, in the County of Stafford, Engineer, for an invention for—"A new or improved machinery for cutting or shearing metals."<br><i>Letters Patent sealed.</i>                                                                                                                                                                         |
| HOLMES.<br>3rd May 1853.              | 1072. GEORGE THOMAS HOLMES, of the firm of Holmes and Sons, of Norwich, in the County of Norfolk, Engineers and Agricultural Implement Makers, for an invention for—"Improvements in thrashing-machines and apparatus connected therewith for shaking the straw, riddling, winnowing, and dressing the corn."<br><i>Provisional protection only.</i>                |
| SWINBURNE.<br>3rd May 1853.           | 1073. ROBERT WALTER SWINBURNE, of South Shields, in the County of Durham, Glass Manufacturer, for an invention for—"Improvements in the manufacture of glass."<br><i>Letters Patent sealed.</i>                                                                                                                                                                     |
| GOBLE.<br>3rd May 1853.               | 1074. GEORGE FREDRIC GOBLE, of 15, Fish Street Hill, in the City of London, Civil Engineer, for an invention for—"Improvements in locks."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                          |
| QUIN.<br>3rd May 1853.                | 1075. RICHARD QUIN, of 5, Rodney Street, Pentonville, in the County of Middlesex, for an invention for—"Improvements in the manufacture of cases for jewellery, for optical and other instruments, miniatures, and other articles."<br><i>Letters Patent sealed.</i>                                                                                                |
| BONNETERRE.<br>3rd May 1853.          | 1076. SEVERIN VIRGILE BONNETERRE, Gentleman, of Paris, in the French Empire, for an invention for—"Certain improvements in machinery for manufacturing screws."<br><i>Provisional protection only.</i>                                                                                                                                                              |



- BAINBRIDGE.  
3rd May 1853.
- CORNIDES.  
3rd May 1853.
- CHAMBERS.  
CHAMBERS.  
3rd May 1853.
- ARNOLD.  
3rd May 1853.
- NEWTON.  
3rd May 1853.
- LIPSCOMBE.  
3rd May 1853.
- NEWTON.  
3rd May 1853.
- BELL.  
4th May 1853.
- WALMSLEY.  
4th May 1853.
- JAGUIN.  
4th May 1853.
- VIDEGRAIN.  
4th May 1853.
- GIANNETTI.  
4th May 1853.
- MASTERS.  
4th May 1853.
- HUTCHINSON.  
4th May 1853.
- OCKENDEN.  
OCKENDEN.  
4th May 1853.
- COOK.  
4th May 1853.
- VERDUN.  
MERTENS.  
4th May 1853.
- RUSSELL.  
4th May 1853.
1077. EDWARD THOMAS BAINBRIDGE, of Saint Paul's Churchyard, in the City of London, for an invention for—"Improvements in obtaining motive-power."  
*Provisional protection only.*
1078. LOUIS CORNIDES, of No. 4, Trafalgar Square, Charing Cross, in the County of Middlesex, for an invention for—"Improvements in treating certain ores and minerals for the purpose of obtaining products therefrom."  
*Letters Patent sealed.*
1079. THOMAS CHAMBERS and JOHN CHAMBERS, of the Thorncliffe Iron Works, near Sheffield, in the County of York, for an invention for—"Certain improvements in kitchen sinks."  
*Letters Patent sealed; no specification filed.*
1080. FREDERICK ARNOLD, of Park Road, Barnsbury, for an invention for—"Certain improvements in binding or covering books."  
*Letters Patent sealed.*
1081. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in hot-air furnaces for heating buildings, some of which improvements are applicable to other furnaces."—*A communication.*  
*Letters Patent sealed.*
1082. FREDERICK LIPSCOMBE, of 233, Strand, in the County of Middlesex, Water Filter Manufacturer, for an invention for—"Improvements in propelling vessels."  
*Provisional protection only.*
1083. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery or apparatus for dressing mill-stones."—*A communication.*  
*Letters Patent sealed.*
1084. GEORGE BELL, of Inchmichael, in the County of Perth, Scotland, Farmer, for an invention for—"A new machine for several agricultural purposes."  
*Letters Patent sealed.*
1085. EDWARD WALMSLEY, of Heaton Norris, in the County of Lancaster, Spinner, for an invention for—"Improved modes of preventing accidents arising from an insufficient supply of water in steam-boilers."  
*Letters Patent sealed.*
1086. CORNELIUS ALFRED JAGUIN, of 40, Monkwell Street, in the City of London, Button Manufacturer, for an invention for—"Improvements in the manufacture of covered buttons made by dies and pressure."  
*Provisional protection only.*
1087. CHARLES VIDEGRAIN, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"Certain improvements in the treatment and preparation of certain natural or artificial stones, to render them applicable to various useful and ornamental purposes."  
*Provisional protection only.*
1088. JEAN BRANDO GIANNETTI, of Paris, in the Empire of France, and of 16, Castle Street, Holborn, London, for an invention for—"Applying the ascensional force of balloons to various useful purposes."  
*Letters Patent sealed.*
1089. THOMAS MASTERS, of Oxford Street, in the County of Middlesex, Confectioner, for an invention for—"Improvements in apparatus for freezing, cooling, and churning."  
*Letters Patent sealed.*
1090. JOHN HOUSEMAN HUTCHINSON, of Grantham, in the County of Lincoln, Surveyor, for an invention for—"Improvements in ventilating bricks."  
*Provisional protection only.*
1091. EDMUND JURY OCKENDEN the elder, and EDMUND JURY OCKENDEN the younger, both of Brighton, in the County of Sussex, Builders, for an invention for—"Improvements in valves and stop-cocks."  
*Provisional protection only.*
1092. JAMES EDGAR COOK, of Greenock, in the County of Renfrew, North Britain, Booking Clerk, for an invention for—"An improved composition for coating and preventing the decay of exposed surfaces."  
*Provisional protection only.*
1093. JEAN BAPTISTE VERDUN and JEAN BAPTISTE MERTENS, of Rue du Buffauld, Paris, France, and 4, South Street, Finsbury, London, Gentleman, for an invention for—"Certain improvements in the construction of celestial and terrestrial globes."  
*Provisional protection only.*
1094. JOHN SCOTT RUSSELL, of Great George Street, Westminster, for an invention for—"Improvements in marine steam engines."  
*Letters Patent sealed.*



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| GOODYEAR.<br>4th May 1853.     | 1095. CHARLES GOODYEAR, of 25, Avenue Road, St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in combining india-rubber with certain metals."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                            |
| TAYLOR.<br>4th May 1853.       | 1096. THOMAS TAYLOR, of the Patent Saw Mills, Manchester, in the County of Lancaster, for an invention for—"Improvements in apparatus for measuring and for governing the flow of water and other liquids."<br><i>Letters Patent sealed.</i>                                                                                                                                                                            |
| NEWTON.<br>4th May 1853.       | 1097. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in apparatus for rolling iron."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                     |
| NEWTON.<br>4th May 1853.       | 1098. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the treatment of fibrous and other substances, for the purpose of ascertaining the quantity of moisture contained therein."— <i>A communication from M. Joseph Louis Rogeat, of Lyons, in the Empire of France.</i><br><i>Provisional protection only.</i> |
| WALKER.<br>4th May 1853.       | 1099. JAMES WALKER, of Bow, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in turn-tables used for railway and other purposes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                        |
| MOORE.<br>5th May 1853.        | 1100. WILLIAM MOORE, of Duke Street, Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in furnaces."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                |
| HOLDFORTH.<br>5th May 1853.    | 1101. JOSEPH DEMPSEY HOLDFORTH, of Leeds, in the West Riding of the County of York, Silk Manufacturer, for an invention for—"Improvements in machinery for combing or dressing silk and other fibrous substances."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                                                             |
| LARBAUD.<br>5th May 1853.      | 1102. CHARLES LARBAUD, of Paris, (Rue du Temple, No. 134,) Département de la Seine, for an invention for—"A new system of trigger applied to play-arms, such as pistols, fusils, rifles, cannons, guns."<br><i>Complete specification; Letters Patent sealed.</i>                                                                                                                                                       |
| RAWE.<br>5th May 1853.         | 1103. JOHN RAWE, junior, of Lemaile, near Wadebridge, in the County of Cornwall, for an invention for—"Propelling vessels and other vehicles on the water."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                            |
| LIVSEY.<br>5th May 1853.       | 1104. JOEL LIVSEY, of Bury, in the County of Lancaster, Gentleman, for an invention for—"An improvement in looms for weaving."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                   |
| STIFFEL.<br>5th May 1853.      | 1105. JEAN CONRAD STIFFEL, of 31, Poultry, City, Merchant, for an invention for—"Improvements in machinery for crushing auriferous quartz and amalgamating the gold therefrom."— <i>A communication from Mr. H. Berdan, of New York.</i><br><i>Provisional protection only.</i>                                                                                                                                         |
| BOURA.<br>5th May 1853.        | 1106. MATTHIAS EDWARD BOURA, of Crayford, in the County of Kent, India-rubber Manufacturer, residence Peckham, in the County of Surry, for an invention for—"Improvements in saddlery and harness."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                    |
| WHITELEY.<br>5th May 1853.     | 1107. JOHN WHITELEY, of Stapleford, in the County of Nottingham, Lace Manufacturer, (one of the firm of Messieurs Whiteley, Ward, and Company, of Stapleford aforesaid, Lace Manufacturers,) for an invention for—"Improvements in warp machinery for producing ornamented and textile fabrics."<br><i>Letters Patent sealed.</i>                                                                                       |
| HETHERINGTON.<br>5th May 1853. | 1108. JOHN HETHERINGTON, of Manchester, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in preparing cotton-wool, flax, silk, and other fibrous substances for spinning."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                |
| PRIDEAUX.<br>5th May 1853.     | 1109. THOMAS SYMES PRIDEAUX, of Saint John's Wood, in the County of Middlesex, for an invention for—"Improvements in propelling vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                              |
| FEARNLEY.<br>5th May 1853.     | 1110. THOMAS FEARNLEY, of the Albion Works, Bradford, in the County of York, Engineer, for an invention for—"Improvements in steam-boilers."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                           |
| BUCKWELL.<br>5th May 1853.     | 1111. WILLIAM BUCKWELL, of Ardmore Lodge, Wellington Road, Saint John's Wood, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction of buildings."<br><i>Complete specification; Protection for SIX months only.</i>                                                                                                                                                            |
| BELL.<br>6th May 1853.         | 1112. CHARLES WILLIAM BELL, of the City of Manchester, in the County of Lancaster, Physician, for an invention for—"Improvements in carriage-springs."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                           |



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| MURRAY.<br>6th May 1853.                       | 1113. THOMAS MURRAY, of Marygold, in the County of Berwick, Scotland, Farmer, for an invention for—"A new machine or implement for hoeing, cutting, and otherwise operating upon turnips or other agricultural produce."<br><i>Provisional protection only.</i>                                                     |
| DOWLER.<br>6th May 1853.                       | 1114. GEORGE DOWLER, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in boxes for containing and igniting matches."<br><i>Letters Patent sealed.</i>                                                                                                                      |
| BRACKENBURY.<br>6th May 1853.                  | 1115. AUGUSTUS BRACKENBURY, of Camden Town, in the County of Middlesex, Gentleman, for an invention for—"Improvements in precipitating the muriate of soda from its solutions in water."<br><i>Letters Patent sealed.</i>                                                                                           |
| DANKS.<br>WALKER.<br>6th May 1853.             | 1116. JOHN RYAN DANKS and BERNARD PEARD WALKER, both of Wolverhampton, in the County of Stafford, Cut Nail Manufacturers, for an invention for—"Improvements in the machinery or apparatus for the manufacture of nails."<br><i>Letters Patent sealed.</i>                                                          |
| GWYNNE.<br>6th May 1853.                       | 1117. JAMES EGLESON ANDERSON GWYNNE, of Essex Wharf, Essex Street, Strand, in the County of Middlesex, Engineer, for an invention for—"Improvements in the treatment or manufacture of peat and other substances to be used as fuel."<br><i>Letters Patent sealed.</i>                                              |
| STROUD.<br>6th May 1853.                       | 1118. JOHN THOMAS STROUD, of Birmingham, in the County of Warwick, for an invention for—"Improvements in the valves of pressure lamps and in lamp-burners."<br><i>Letters Patent sealed.</i>                                                                                                                        |
| JACOB.<br>6th May 1853.                        | 1119. GEORGE WILLIAM JACOB, of Dalston, in the County of Middlesex, for an invention for—"An improved manufacture of metallic covers or seals for bottles, jars, and other like vessels, and in applying or affixing them."<br><i>Letters Patent sealed.</i>                                                        |
| FONTAINE MOREAU.<br>6th May 1853.              | 1120. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"Certain improvements in the manufacture of hat plush."— <i>A communication.</i><br><i>Letters Patent sealed.</i>              |
| NICKELS.<br>6th May 1853.                      | 1121. CHRISTOPHER NICKELS, of York Road, Lambeth, in the County of Surrey, for an invention for—"Improvements in machinery for masticating, kneading, or grinding india-rubber, gutta-percha, and other matter."<br><i>Letters Patent sealed.</i>                                                                   |
| LONGMAID.<br>LONGMAID.<br>6th May 1853.        | 1122. WILLIAM LONGMAID and JOHN LONGMAID, of Beaumont Square, in the County of Middlesex, for an invention for—"Improvements in treating waste products obtained in smelting and otherwise treating ores and minerals, and in producing a valuable product or products therefrom."<br><i>Letters Patent sealed.</i> |
| RIERA.<br>6th May 1853.                        | 1123. MARIANO RIERA, of Madrid, (Spain,) and now residing in Paris, 29, Boulevard St. Martin, France, for an invention for—"Certain improvements in fire-arms."<br><i>Letters Patent sealed.</i>                                                                                                                    |
| CAPECCIONI.<br>6th May 1853.                   | 1124. FRANCESCO CAPECCIONI, of 16, Castle Street, Holborn, (City,) London, for an invention for—"Certain improvements in the manufacture of candles."<br><i>Letters Patent sealed.</i>                                                                                                                              |
| NICHOL.<br>7th May 1853.                       | 1125. JAMES NICHOL, of Edinburgh, Scotland, Bookseller, for an invention for—"Improvements in bookbinding."<br><i>Letters Patent sealed.</i>                                                                                                                                                                        |
| PALMER.<br>7th May 1853.                       | 1126. CHRISTOPHER RICHARD NORRIS PALMER, of Amwell, in the County of Hertford, Esquire, for an invention for—"A new and improved mode of communicating or signaling between the guards and engine drivers on a railway train; also applicable to other purposes."<br><i>Letters Patent sealed.</i>                  |
| PULLMAN.<br>7th May 1853.                      | 1127. JOHN PULLMAN, of 17, Greek Street, Soho, in the County of Middlesex, for an invention for—"Improvements in the manufacture of losh or oil dressed leather."<br><i>Letters Patent sealed.</i>                                                                                                                  |
| WARNER.<br>HAYWOOD.<br>CROSS.<br>7th May 1853. | 1128. HENRY WARNER, Manufacturer, JOSEPH HAYWOOD and WILLIAM CROSS, Mechanists, of Loughborough, for an invention for—"Improvements in machinery used in the manufacture of framework knitting."<br><i>Letters Patent sealed.</i>                                                                                   |



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| HUGHES.<br>DENHAM.<br>7th May 1853.                | 1129. HESKETH HUGHES, of Cottage Place, City Road, in the County of Middlesex, Manufacturer, and WILLIAM THOMAS DENHAM, of the same place, Manufacturer, for an invention for—"Improvements in machinery for weaving."<br><i>Letters Patent sealed.</i>                                                                                        |
| BOGGETT.<br>PETTIT.<br>7th May 1853.               | 1130. WILLIAM BOGGETT, of Saint Martin's Lane, in the City of Westminster, Gentleman, and GEORGE BROOKS PETTIT, of Lisle Street, also in the City of Westminster, Gas Engineer, for an invention for—"Improvements in apparatus for heating by gas."<br><i>Letters Patent sealed.</i>                                                          |
| FINZEL.<br>7th May 1853.                           | 1131. CONRAD WILLIAM FINZEL, of Bristol, in the County of Somerset, Sugar Refiner, for an invention for—"An improvement in refining sugar."<br><i>Letters Patent sealed.</i>                                                                                                                                                                   |
| CHAPLIN.<br>7th May 1853.                          | 1132. ALEXANDER CHAPLIN, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in the construction of ships and boats."<br><i>Provisional protection only.</i>                                                                                                                                      |
| ENGLAND.<br>7th May 1853.                          | 1133. GEORGE ENGLAND, of Hatcham Iron Works, New Cross, in the County of Surrey, Engineer, for an invention for—"Improvements in screw-jacks."<br><i>Letters Patent sealed.</i>                                                                                                                                                                |
| BEAUMONT.<br>9th May 1853.                         | 1134. EDWARD BLACKETT BEAUMONT, of Woodhall, Barnsley, in the County of York, Gentleman, for an invention for—"Certain improvements in the mode of constructing dwelling-houses or other buildings, and in peculiar-shaped bricks and tiles to be used for the purpose."<br><i>Letters Patent sealed.</i>                                      |
| FISHER.<br>9th May 1853.                           | 1135. JOHN FISHER, of Liverpool, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery for propelling vessels, and in the mode of manufacturing the same."<br><i>Letters Patent sealed.</i>                                                                                                                    |
| LAW.<br>INGLIS.<br>9th May 1853.                   | 1136. DAVID LAW, of Glasgow, in the County of Lanark, North Britain, and JOHN INGLIS, of the same place, Ironfounders, for an invention for—"Improvements in moulding or shaping metals."<br><i>Letters Patent sealed.</i>                                                                                                                     |
| JOHNSON.<br>9th May 1853.                          | 1137. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery for combing and preparing wool and other fibrous materials."— <i>A communication.</i><br><i>Provisional protection only.</i>                                      |
| JOHNSON.<br>9th May 1853.                          | 1138. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in coating or plating vessels and other articles, for the better resistance of the action of acids and salts."— <i>A communication.</i><br><i>Provisional protection only.</i> |
| WRIGHT.<br>9th May 1853.                           | 1139. PETER WRIGHT, of Dudley, in the County of Worcester, Vice and Anvil Manufacturer, for an invention for—"Improvements in the construction or manufacture of tew-irons."<br><i>Letters Patent sealed.</i>                                                                                                                                  |
| QUAIFE.<br>9th May 1853.                           | 1140. THOMAS QUAIFE, of Battle, in the County of Sussex, Watchmaker, for an invention for—"Improvements in the manufacture of watches, watch-cases, and in tools and apparatus employed therein."<br><i>Letters Patent sealed.</i>                                                                                                             |
| LIPSCOMBE.<br>10th May 1853.                       | 1141. FREDERICK LIPSCOMBE, of 233, Strand, in the County of Middlesex, Water Filter Manufacturer, for an invention for—"Improvements in obtaining motive-power."<br><i>Provisional protection only.</i>                                                                                                                                        |
| BROWN.<br>10th May 1853.                           | 1142. JAMES BROWN, of No. 2, Bridge Terrace, Canal Road, in the Parish of St. Dunstan, Stepney, in the County of Middlesex, Machinist, for an invention for—"An improvement in anchors."<br><i>Provisional protection only.</i>                                                                                                                |
| CLAPHAM.<br>CLAPHAM.<br>CLAPHAM.<br>10th May 1853. | 1143. JOHN CLAPHAM, THOMAS CLAPHAM, and WILLIAM CLAPHAM, of Wellington Foundry, in Keighley, in the County of York, for an invention for—"Improvements in moulding and casting iron pipes."<br><i>Letters Patent sealed.</i>                                                                                                                   |
| MURRAY.<br>10th May 1853.                          | 1144. THOMAS MURRAY, of Marygold, in the County of Berwick, Scotland, Farmer, for an invention for—"Certain improvements in breaks or drags for wheeled carriages, and in adapting the carriages for the application and use of such breaks."<br><i>Letters Patent sealed.</i>                                                                 |



KANE.  
10th May 1853.

SMITH.  
PARFREY.  
10th May 1853.

BROWN.  
10th May 1853.

TILLET.  
10th May 1853.

ROBERTON.  
ROBERTON.  
10th May 1853.

JOHNSON.  
10th May 1853.

JOHNSON.  
10th May 1853.

CHAPLIN.  
10th May 1853.

BUCHANAN.  
10th May 1853.

RUSSELL.  
11th May 1853.

BRETT.  
11th May 1853.

MAZIER.  
11th May 1853.

LISTER.  
11th May 1853.

CRABTREE.  
SCOTT.  
11th May 1853.

BURT.  
11th May 1853.

EDMONDSON.  
11th May 1853.

MOTTRAM.  
11th May 1853.

1145. GREGORY KANE, of the City of Dublin, Camp Furniture Manufacturer, for an invention for—"The construction of portable houses or portions thereof out of parts which may be used for other purposes." *Letters Patent sealed.*

1146. OCTAVIUS HENRY SMITH, of Bedford Square, and YOUNGS PARFREY, of Pimlico, both in the County of Middlesex, for an invention for—"Improvements in the manufacture of carriage-wheels." *Letters Patent sealed.*

1147. ROBERT BROWN, of 58, Waterloo Road, Liverpool, in the County of Lancaster, for an invention for—"Improvements in lifting and forcing water and other fluids." *Letters Patent sealed; no specification filed.*

1148. GEORGE TILLET, of Kentish Town, in the County of Middlesex, for an invention for—"Improvements in the manufacture of metal bedsteads." *Letters Patent sealed.*

1149. GEORGE ROBERTON and ALEXANDER ROBERTON, both Stuff Finishers, of Bradford, in the County of York, for an invention for—"Improvements in apparatus for drying and finishing woven fabrics." *Letters Patent sealed.*

1150. WILLIAM JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Civil Engineer, for an invention for—"Improvements in machinery or apparatus for sewing."—*A communication from William Wickersham, of Lowell, in the County of Middlesex, and State of Massachusetts, in the United States of America.* *Letters Patent sealed.*

1151. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for effecting agricultural operations."—*A communication.* *Letters Patent sealed.*

1152. ALEXANDER CHAPLIN, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in apparatus for the transmission of aeriform bodies." *Letters Patent sealed.*

1153. GEORGE STEVENSON BUCHANAN, of Glasgow, in the County of Lanark, North Britain, Finisher, for an invention for—"Improvements in the treatment or finishing of textile fabrics." *Letters Patent sealed.*

1154. SAMUEL RUSSELL, of Sheffield, in the County of York, Manufacturer, for an invention for—"Improvements in handles for razors." *Letters Patent sealed.*

1155. JACOB BRETT, of Hanover Square, in the county of Middlesex, Gentleman, for an invention for—"Improvements in electric telegraph apparatus."—*Partly a communication.* *Letters Patent sealed.*

1156. MARIE PIERRE FERDINAND MAZIER, (Doctor), of the Town of Aigle, in the French Empire, for an invention for—"A machine for cutting and reaping corn, corn crops, and other plants." *Letters Patent sealed.*

1157. SAMUEL CUNLIFFE LISTER, of Manningham, in the County of York, machine wool-comber, for an invention for—"Improvements in treating and preparing before being spun, wool, cotton, and other fibrous materials." *Letters Patent sealed.*

1158. JOHN CRABTREE, of Heywood, in the County of Lancaster, Cotton Spinner, and THOMAS LIVESEY SCOTT, of Heywood aforesaid, Engineer, for an invention for—"Certain improvements in machinery for preparing and spinning cotton and other fibrous substances." *Provisional protection only.*

1159. HENRY POTTER BURT, of 2, Charlotte Row, in the City of London, Civil Engineer, for an invention for—"Improvements in portable houses." *Letters Patent sealed.*

1160. RICHARD EDMONDSON, of Blackburn, in the County of Lancaster, Manufacturer, for an invention for—"Certain improvements in the manufacture of covered corded textile fabrics, and in machinery to be used for that purpose, being applicable either to hand or power." *Letters Patent sealed.*

1161. JOHN MOTTRAM, of the firm of Anne Robinson & Company, of Liverpool, in the County of Lancaster, Ironmongers, for an invention for—"Improvements in machinery for washing ores, and separating metals from earth or other compounds." *Provisional protection only.*



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| JORDESON.<br>11th May 1853.              | 1162. THOMAS POWDITCH JORDESON, of Lewisham Road, New Cross, in the County of Kent, Commission Agent, for an invention for—"Certain improvements in rafting timber and other goods."<br><i>Provisional protection only.</i>                                                                                       |
| BOTTOMLEY.<br>11th May 1853.             | 1163. JOHN BOTTOMLEY, of Bradford, in the County of York, Manufacturer, for an invention for—"Improvements in the manufacture of textile fabrics."<br><i>Provisional protection only.</i>                                                                                                                         |
| BRADBURY.<br>EVANS.<br>11th May 1853.    | 1164. WILLIAM BRADBURY and FREDERICK MULLETT EVANS, of Whitefriars, for an invention for—"Improvements in taking impressions and producing printing surfaces."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                          |
| BIRD.<br>11th May 1853.                  | 1165. ALFRED BIRD, of 15, Worcester Street, Birmingham, Experimental Chemist, for an invention for—"Improvements in the means of communicating between guards or persons and the engine driver of a railway train."<br><i>Provisional protection only.</i>                                                        |
| BELLEVILLE.<br>11th May 1853.            | 1166. JULIEN FRANÇOIS BELLEVILLE, Manufacturer, of Paris, in the French Empire, for an invention for—"Improvements in propelling."<br><i>Provisional protection only.</i>                                                                                                                                         |
| WHITAKER.<br>WALMSLEY.<br>11th May 1853. | 1167. EDMUND WHITAKER, of Rochdale, Engineer, and JAMES WALMSLEY the younger, of Smithy Bridge, near Rochdale, Earthenware Manufacturer, for an invention for—"Improvements in the manufacture of pipes, tiles, bricks, and slabs from clay."<br><i>Letters Patent sealed.</i>                                    |
| STEVENS.<br>11th May 1853.               | 1168. JOHN LEE STEVENS, of No. 63, King William Street, in the City of London, Civil Engineer, for an invention for—"An improved fastener for flowers and shrubs."<br><i>Provisional protection only.</i>                                                                                                         |
| BELL.<br>11th May 1853.                  | 1169. GEORGE BELL, of Powell Street, Goswell Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in obtaining liquid cement, and pigments or paints."<br><i>Letters Patent sealed.</i>                                                                                              |
| MATTHEWS.<br>11th May 1853.              | 1170. ABRAHAM MATTHEWS, of Denby Street, Pimlico, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in disengaging boats from ships or other vessels."<br><i>Provisional protection only.</i>                                                                                        |
| BULL.<br>11th May 1853.                  | 1171. WILLIAM BULL, of Battersea, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in direct acting steam-engines with fixed cylinders."<br><i>Provisional protection only.</i>                                                                                                        |
| GOBLE.<br>12th May 1853.                 | 1172. GEORGE FREDRIC GOBLE, of 15, Fish Street Hill, in the City of London, Master Mariner, for an invention for—"Improvements in propelling vessels and carriages, parts of the machinery therein employed being also applicable to other like purposes."<br><i>Letters Patent sealed.</i>                       |
| PARKES.<br>12th May 1853.                | 1173. JAMES PARKES, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved stopcock for regulating the flow of gases."<br><i>Provisional protection only.</i>                                                                                                             |
| O'BYRNE.<br>DOWLING.<br>12th May 1853.   | 1174. MARTIN WALTER O'BYRNE and JOHN DOWLING, of No. 2, Raquet Court, Fleet Street, in the County of Middlesex, Engineers, for an invention for—"Improvements in the manufacture of mangles."<br><i>Provisional protection only.</i>                                                                              |
| DENTON.<br>12th May 1853.                | 1175. JOSEPH DENTON, of Prestwich, in the County of Lancaster, Gentleman, for an invention for—"Improvements in machinery or apparatus for manufacturing looped terry or other similar fabrics."<br><i>Letters Patent sealed.</i>                                                                                 |
| SAWTELL.<br>12th May 1853.               | 1176. JOSEPH SAWTELL, of Newport, in the County of Monmouth, for an invention for—"Improvements in economizing fuel by rendering available the heat from coke ovens, and applying the same to the heating of air-kilns, stoves, ovens, and to the generation of steam."<br><i>Provisional protection only.</i>    |
| BERNARD.<br>BELLHOUSE.<br>12th May 1853. | 1177. JULIAN BERNARD, of Guildford Street, Russell Square, in the County of Middlesex, Gentleman, and EDWARD TAYLOR BELLHOUSE, of the Eagle Foundry, Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in pressing and in extracting fluids."<br><i>Letters Patent sealed.</i> |
| POOLEY.<br>13th May 1853.                | 1178. CHARLES POOLEY, of Manchester, in the County of Lancaster, Cotton Spinner, for an invention for—"An improved mode of feeding machines for opening, cleaning, blowing, and scutching cotton and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                  |



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| <p>EIDMANS.<br/>13th May 1853.</p> <p>ARROWSMITH.<br/>13th May 1853.</p> <p>BERTRAM.<br/>13th May 1853.</p> <p>STIFF.<br/>13th May 1853.</p> <p>THOMAS.<br/>13th May 1853.</p> <p>TETLEY.<br/>13th May 1853.</p> <p>BARTLEET.<br/>13th May 1853.</p> <p>BROOMAN.<br/>13th May 1853.</p> <p>BELLHOUSE.<br/>13th May 1853.</p> <p>KNOWLES.<br/>BELLHOUSE.<br/>13th May 1853.</p> <p>EADES.<br/>14th May 1853.</p> <p>RUSSELL.<br/>14th May 1853.</p> <p>COPPOCK.<br/>14th May 1853.</p> <p>BROWNE.<br/>14th May 1853.</p> <p>HIGGIN.<br/>14th May 1853.</p> <p>HOLT.<br/>14th May 1853.</p> <p>POOLE.<br/>14th May 1853.</p> | <p>1179. JOSEPH STAYNER EIDMANS, of Lacey Terrace, Kennington Road, in the County of Surrey, Civil Engineer, for an invention for—"Certain improvements in umbrellas and parasols."<br/><i>Provisional protection only.</i></p> <p>1180. JOHN ARROWSMITH, of Bilston, in the County of Stafford, Engineer, for an invention for—"A new or improved turn-table."<br/><i>Provisional protection only.</i></p> <p>1181. GEORGE BERTRAM, of the firm of William and George Bertram, Engineers, Edinburgh, Scotland, for an invention for—"Improvements in the manufacture of paper."<br/><i>Letters Patent sealed.</i></p> <p>1182. GEORGE STIFF, of Minerva Cottage, Christchurch Road, Brixton Hill, in the County of Surrey, Gentleman, for an invention for—"An improved construction of printing-machine."<br/><i>Letters Patent sealed.</i></p> <p>1183. WILLIAM THOMAS, of Cheapside, in the City of London, Merchant, for an invention for—"Improvements in weaving narrow fabrics for binding."<br/><i>Letters Patent sealed.</i></p> <p>1184. CHARLES TETLEY, late of Bradford, in the County of York, Gentleman, but now of Skinner Street, in the City of London, for an invention for—"Improvements in rotatory engines."<br/><i>Letters Patent sealed.</i></p> <p>1185. ROBERT SMITH BARTLEET, of Redditch, in the County of Worcester, for an invention for—"Improvements in sewing machines."<br/><i>Provisional protection only.</i></p> <p>1186. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, &amp; Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in the manufacture of hats."—<i>A communication.</i><br/><i>Letters Patent sealed.</i></p> <p>1187. EDWARD TAYLOR BELLHOUSE, of the Eagle Foundry, Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in steam-boilers."<br/><i>Letters Patent sealed.</i></p> <p>1188. JOHN KNOWLES, of Manchester, in the County of Lancaster, Marble Merchant, and EDWARD TAYLOR BELLHOUSE, of the same place, Engineer, for an invention for—"Certain improvements in the manufacture of articles of marble."<br/><i>Letters Patent sealed.</i></p> <p>1189. RICHARD EADES, of Birmingham, in the County of Warwick, Blacksmith, for an invention for—"A new or improved metallic wheel."<br/><i>Provisional protection only.</i></p> <p>1190. GEORGE FITZJAMES RUSSELL, of No. 9, Duke Street, Adelphi, in the County of Middlesex, Gentleman, for an invention for—"An apparatus for disengaging, lowering, and raising ships' boats."<br/><i>Letters Patent sealed.</i></p> <p>1191. GEORGE COPPOCK, of Heaton Norris, in the County of Lancaster, Manager to Messrs. Williamson and Roberts, of Heaton Norris aforesaid, Machine Makers, for an invention for—"Certain improvements in looms for weaving."<br/><i>Letters Patent sealed.</i></p> <p>1192. JOHN BROWNE, of Upper Charlotte Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction of chimneys or flues, and in apparatus for increasing draught, consuming smoke, or utilizing the same."<br/><i>Provisional protection only.</i></p> <p>1193. JAMES HIGGIN, of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in printing or dyeing woven or textile fabrics, and in the manufacturing of certain substances to be used in the arts or processes of dyeing and printing."<br/><i>Letters Patent sealed.</i></p> <p>1194. THOMAS STEPHEN HOLT, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in steam-engines, which improvements are also applicable to the machinery or apparatus connected to steam-boilers."<br/><i>Letters Patent sealed.</i></p> <p>1195. MOSES POOLE, of Avenue Road, Regent's Park, in the County of Middlesex, Gentleman, for an invention for—"A new or improved machine for pegging boots or shoes."—<i>A communication from Edward L. Norfolk, of the United States of America.</i><br/><i>Letters Patent sealed.</i></p> |
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| MERTENS.<br>14th May 1853.          | 1196. HERMAN DIRS MERTENS, of Margate, in the County of Kent, Solicitor, for an invention for—"Improvements in preparing materials to be employed in making beer and other beverages."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                |
| WARNER.<br>14th May 1853.           | 1197. WILLIAM JOHN WARNER, of King Street, Soho, in the County of Middlesex, for an invention for—"Improvements in dry gas-meters." <i>Letters Patent sealed.</i>                                                                                                                               |
| JENNINGS.<br>14th May 1853.         | 1198. FRANCIS MONTGOMERY JENNINGS, of Cork, in the Kingdom of Ireland, Manufacturing Chemist, for an invention for—"Improvements in treating wool, silk, feathers, and other animal matters for softening and otherwise improving the quality of the same." <i>Provisional protection only.</i> |
| O'KEEFE.<br>14th May 1853.          | 1199. JOHN O'KEEFE, of 12, Queen Anne Street, Liverpool, in the County of Lancaster, Rose Engine Turner, for an invention for—"Improvements in the manufacture of watch cases." <i>Letters Patent sealed; no specification filed.</i>                                                           |
| GARRETT.<br>14th May 1853.          | 1200. STEPHEN GARRETT, of No. 16, Taunton Place, Crimscott Street, Grange Road, Bermondsey, in the County of Surrey, Currier, for an invention for—"Improvements in the preparing and tanning of skins, hides, or pelts of animals." <i>Letters Patent sealed.</i>                              |
| FONTAINE MOREAU.<br>14th May 1853.  | 1201. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of 39, Rue de l'Echiquier, Paris, France, and 4, South Street, Finsbury, London, Patent Agent, for an invention for—"Certain improvements in steam-engines."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                          |
| FONTAINE MOREAU.<br>14th May 1853.  | 1202. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"Certain improvements in steam-boilers."— <i>A communication.</i><br><i>Letters Patent sealed.</i>         |
| BRADY.<br>14th May 1853.            | 1203. JOHN DRUMGOOLE BRADY, of Cambridge Terrace, in the County of Middlesex, Esquire, for an invention for—"Improvements in knapsacks." <i>Letters Patent sealed.</i>                                                                                                                          |
| SWINBURNE.<br>14th May 1853.        | 1204. ROBERT WALTER SWINBURNE, of South Shields, in the County of Durham, Glass Manufacturer, for an invention for—"Improvements in apparatus or machinery to be used in the manufacture of glass." <i>Letters Patent sealed.</i>                                                               |
| ROLT.<br>14th May 1853.             | 1205. EUGENE ROLT, of Saint John's Wood, in the County of Middlesex, Composer of Music, for an invention for—"Certain improvements in pianofortes." <i>Provisional protection only.</i>                                                                                                         |
| JAMIN.<br>SYMONS.<br>16th May 1853. | 1206. JEAN JACQUES JOSEPH JAMIN, of Gerard Street, in the County of Middlesex, Gentleman, and ALEXANDER SYMONS, of the Strand, in the County of Middlesex, Gentleman, for an invention for—"Certain improvements in the manufacture of boots and shoes." <i>Letters Patent sealed.</i>          |
| BARSE.<br>16th May 1853.            | 1207. JEAN EMILE BARSE, (Chemist,) of Paris, in the French Empire, for an invention for—"Improvements in the manufacture of grease or composition for lubricating the axles and moving parts of machinery." <i>Letters Patent sealed.</i>                                                       |
| RICHARDSON.<br>16th May 1853.       | 1208. THOMAS RICHARDSON, of Newcastle-upon-Tyne, Chemist, for an invention for—"Improvements in the manufacture of certain compounds containing phosphoric acid." <i>Letters Patent sealed.</i>                                                                                                 |
| BOYD.<br>16th May 1853.             | 1209. ROBERT BOYD, of Paisley, in the County of Renfrew, North Britain, Merchant, for an invention for—"Improvements in weaving." <i>Letters Patent sealed.</i>                                                                                                                                 |
| TIZARD.<br>16th May 1853.           | 1210. WILLIAM LITTELL TIZARD, of Aldgate High Street, in the City of London, Brewers' Engineer, for an invention for—"Improvements in dredging machines." <i>Provisional protection only.</i>                                                                                                   |
| PHILLIPS.<br>16th May 1853.         | 1211. MORETON HASSALL PHILLIPS, of Shrewsbury, in the County of Salop, Gentleman, for an invention for—"An improved gun." <i>Letters Patent sealed.</i>                                                                                                                                         |
| JONES.<br>16th May 1853.            | 1212. GEORGE JONES, of Birmingham, in the County of Warwick, Engineer and Iron Founder, for an invention for—"Improvements in ventilating mines." <i>Letters Patent sealed.</i>                                                                                                                 |



- BERRY.  
17th May 1853.
- POWNALL.  
17th May 1853.
- STEVENS.  
17th May 1853.
- WEBB.  
17th May 1853.
- VIZETELLY.  
VIZETELLY.  
17th May 1853.
- ECCLES.  
ECCLES.  
17th May 1853.
- UNDERWOOD.  
18th May 1853.
- COWPER.  
18th May 1853.
- PALMER.  
18th May 1853.
- HASKETT.  
18th May 1853.
- WALKER.  
WARREN.  
18th May 1853.
- RYE.  
18th May 1853.
- CLARKSON.  
18th May 1853.
- THOMPSON.  
18th May 1853.
- RYAN.  
18th May 1853.
- BARSHAM.  
18th May 1853.
- BARSHAM.  
18th May 1853.
1213. GEORGE BERRY, of No. 19, Buttersland Street, St. Leonards, Shoreditch, in the County of Middlesex, Gentleman, for an invention for—"An improved method of roasting coffee, cocoa, and chicory." *Complete specification ; Letters Patent sealed.*
1214. CHARLES JAMES POWNALL, of Addison Road, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the preparation and treatment of flax and other similar vegetable fibres." *Letters Patent sealed.*
1215. JOHN LEE STEVENS, of 63, King William Street, in the City of London, Civil Engineer, for an invention for—"Improvements in grates and stoves." *Letters Patent sealed.*
1216. JOSEPH WEBB, of Mayfield Terrace, Dalston, in the County of Middlesex, for an invention for—"Improvements in rotatory engines." *Letters Patent sealed.*
1217. JAMES THOMAS GEORGE VIZETELLY, of Peterborough Court, and HENRY RICHARD VIZETELLY, of Gough Square, both in the City of London, Printers and Engravers, for an invention for—"Improvements in printing-machines."—*A communication.* *Letters Patent sealed.*
1218. SAMUEL ECCLES and JAMES ECCLES, of Kensington, in the County of Philadelphia and State of Pennsylvania, for an invention for—"Certain improvements in power-looms for weaving figured fabrics." *Letters Patent sealed.*
1219. GEORGE UNDERWOOD, of Stichill, in the County of Roxburgh, North Britain, Gentleman, for an invention for—"Improvements in preparations from sulphate of iron to be employed as medicines." *Provisional protection only.*
1220. CHARLES COWPER, of 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in machinery for combing and preparing wool and other fibrous substances."—*A communication.* *Letters Patent sealed.*
1221. CHRISTOPHER RICHARD NORRIS PALMER, of Amwell, in the County of Hertford, Esquire, for an invention for—"An improved mode and apparatus for working the machinery in factories and ships, in connection with the steam-engines or steam-power now used therein." *Provisional protection only.*
1222. JOHN HASKETT, of 52, Wigmore Street, in the County of Middlesex, for an invention for—"Improvements in anchors to be called 'The Ferdinand Martin Safety Anchor.'"—*A communication.* *Letters Patent sealed.*
1223. BERNARD PEARD WALKER, of Wolverhampton, in the County of Stafford, Cut Nail Manufacturer, and JAMES WARREN, of Mile End Road, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*
1224. WHARTON RYE, of Collyhurst, near Manchester, in the County of Lancaster, Ironfounder, for an invention for—"Certain improvements in kitchen-ranges or fire-grates." *Letters Patent sealed.*
1225. CHARLES CLARKSON, of No. 9, Avery Row, Lower Grosvenor Street, in the Parish of St. George, Hanover Square, Middlesex, for an invention for—"An improved duster or dusting-brush, painting-brush, and all other description of brushes, the handle of which passes through the centre and the hair or bristles are bound or tied round it." *Letters Patent sealed.*
1226. RICHARD THOMPSON, of Three, Finsbury Chambers, Blomfield Street, in the City of London, Gentleman, for an invention for—"Making perforated building stone." *Provisional protection only.*
1227. JOHN RYAN, of Liverpool Street, in the City of London, Surgeon, for an invention for—"An apparatus for purifying liquids in a ready and economical manner." *Letters Patent sealed.*
1228. JOHN BARSHAM, of Kingston-upon-Thames, in the County of Surrey, for an invention for—"Improvements in drying bricks, peat, and other articles." *Letters Patent sealed.*
1229. JOHN BARSHAM, of Kingston-upon-Thames, in the County of Surrey, for an invention for—"Improvements in charring peat and other vegetable substances, and in burning lime." *Letters Patent sealed.*



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| SIMPSON.<br>18th May 1853.                         | 1230. EDWARD THORNHILL SIMPSON, of Calder Soap Works, Wakefield, in the County of York, for an invention for—"Improvements in the manufacture of manure."<br><i>Letters Patent sealed.</i>                                                                                                                                                                        |
| SANT.<br>18th May 1853.                            | 1231. GEORGE SANT, of Norton Lodge, Mumbles, Swansea, for an invention for—"Improvements in clocks or time-keepers."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                             |
| GOSSAGE.<br>18th May 1853.                         | 1232. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of alkali from common salt."<br><i>Letters Patent sealed.</i>                                                                                                                                                          |
| Oakey.<br>18th May 1853.                           | 1233. JOHN Oakey, of Blackfriars Road, in the County of Surrey, Emery Manufacturer, for an invention for—"Improvements in reducing emery, glass, and other like substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                     |
| NEWTON.<br>18th May 1853.                          | 1234. BENJAMIN NEWTON, of Brighton, in the County of Sussex, Mat Manufacturer, for an invention for—"Improvements in the manufacture of mats."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| ALLEN.<br>18th May 1853.                           | 1235. JOB ALLEN, of Bower Street, in the County of Middlesex, Engineer, for an invention for—"Improvements in communicating intelligence."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                       |
| BRIGGS.<br>18th May 1853.                          | 1236. EDWARD BRIGGS, of the Castleton Mills, near Rochdale, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in the manufacture of pile fabrics, and in the machinery or apparatus employed therein."<br><i>Letters Patent sealed.</i>                                                                                                |
| WRIGHT.<br>19th May 1853.                          | 1237. SAMUEL WRIGHT, of No. 24, Church Street, Shoreditch, in the County of Middlesex, for an invention for—"Making a gas, steam, air, or liquid safety-tap."<br><i>Letters Patent sealed.</i>                                                                                                                                                                    |
| GRAHAME.<br>19th May 1853.                         | 1238. THOMAS GRAHAME, of Hatton Hall, Wellingborough, Northampton, for an invention for—"Improvements in the manufacture of covering materials for houses and other structures and surfaces."<br><i>Letters Patent sealed.</i>                                                                                                                                    |
| NEWTON.<br>19th May 1853.                          | 1239. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery or apparatus applicable for pumping water and supplying steam-boilers with water, and maintaining the water therein at a proper level."— <i>A communication.</i><br><i>Letters Patent sealed.</i> |
| HIPPISLEY.<br>19th May 1853.                       | 1240. JOHN HIPPISELEY, of Stoneaston, in the County of Somerset, Esquire, for an invention for—"Improvements in steam-engines suitable for agricultural purposes, and to locomotion on common roads."<br><i>Letters Patent sealed.</i>                                                                                                                            |
| GILBERT.<br>19th May 1853.                         | 1241. JOHN AMES GILBERT, of Clerkenwell, in the County of Middlesex, Japanner, for an invention for—"An improvement in canisters."<br><i>Provisional protection only.</i>                                                                                                                                                                                         |
| WAINWRIGHT.<br>19th May 1853.                      | 1242. JOSEPH WAINWRIGHT, of Heap, near Bury, in the County of Lancaster, Mechanic, for an invention for—"Certain improvements in apparatus for regulating or governing the speed of steam-engines."<br><i>Provisional protection only.</i>                                                                                                                        |
| MANIFOLD.<br>LOWNDES.<br>JORDAN.<br>19th May 1853. | 1243. JOHN THORNBORROW MANIFOLD, CHARLES SPENCER LOWNDES, and JOHN JORDAN, all of Liverpool, in the County of Lancaster, Engineers, for an invention for—"Improvements in the method of extracting the juice from the sugar-cane."<br><i>Letters Patent sealed.</i>                                                                                               |
| FULTON.<br>19th May 1853.                          | 1244. WILLIAM FULTON, of Paisley, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in the treatment, and scouring, or cleansing of textile fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                        |
| DE BERGUE.<br>19th May 1853.                       | 1245. CHARLES DE BERGUE, of Dowgate Hill, in the City of London, Engineer, for an invention for—"Improvements in the permanent way of railways, and also in chairs and in sleepers for permanent way."<br><i>Letters Patent sealed.</i>                                                                                                                           |
| BAKER.<br>20th May 1853.                           | 1246. ST. THOMAS BAKER, of King's Road, Chelsea, Gas Engineer, for an invention for—"Improvements in revolving shutters."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                        |
| COWPER.<br>20th May 1853.                          | 1247. CHARLES COWPER, of Kensington, in the County of Middlesex, Engineer, for an invention for—"Improvements in steam-boilers."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                 |
| SCHOLLICK.<br>20th May 1853.                       | 1248. EDWARD JONES SCHOLLICK, of Aldingham Hall, Ulverston, Esquire, for an invention for—"Improvements in obtaining motive power."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                              |



- SCHOLLICK.  
20th May 1853.  
GILBERT.  
20th May 1853.  
BELLFORD.  
20th May 1853.  
DIMS DALE.  
20th May 1853.  
BENTALL.  
20th May 1853.  
THORNTON.  
20th May 1853.  
CARTER.  
21st May 1853.  
BLAIR.  
21st May 1853.  
BETTELEY.  
21st May 1853.  
CHISHOLM.  
21st May 1853.  
DUCAYLA.  
21st May 1853.  
SCOUTETTEN.  
21st May 1853.  
MARRIOTT.  
21st May 1853.  
BELLFORD.  
21st May 1853.  
CARPENTER.  
23rd May 1853.  
EVANS.  
23rd May 1853.  
GIROUARD.  
23rd May 1853.
1249. SAMUEL SCHOLLICK, of Ulverston, Ship-builder, for an invention for—"Improvements in ship-building." *Letters Patent sealed.*
1250. HENRY GILBERT, of Kensington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in apparatus for cleaning boots and shoes." *Provisional protection only.*
1251. AUGUSTE EDOUARD LORADOUX BELLFORD, of the United Patent Offices, 16, Castle Street, Holborn, Middlesex, for an invention for—"Improvements in rotary engines to be driven by steam or any vapour, fluid, or gas, and in boilers or generators to be used in generating steam or gas for driving the aforesaid or other engines, or for other purposes."—*A communication.* *Letters Patent sealed.*
1252. THOMAS ISAAC DIMS DALE, of Kingstown, near Dublin, in the Kingdom of Ireland, Esquire, for an invention for—"Improvements in disinfecting sewage or other fetid matters, and in absorbing noxious gaseous exhalations." *Letters Patent sealed.*
1253. EDWARD HAMMOND BENTALL, of Heybridge, in the County of Essex, Ironfounder, for an invention for—"Improved machinery or apparatus for measuring and indicating the power exerted by engines, and also the force required to propel machinery, carriages, or ploughs." *Letters Patent sealed.*
1254. WILLIAM CARR THORNTON, of Cleckheaton, in the County of York, Machine-maker, for an invention for—"Improved machinery for making wire-cards." *Letters Patent sealed.*
1255. GEORGE CARTER, of Mottingham, in the County of Kent, Gentleman, for an invention for—"Improvements in the manufacture of fire-lighters, and in machinery connected therewith." *Provisional protection only.*
1256. JOHN BLAIR, of Ducie Bridge Mill, Manchester, in the County of Lancaster, for an invention for—"The application of steam power to the working of railway breaks." *Letters Patent sealed.*
1257. JOSEPH BETTELEY, of Liverpool, in the County of Lancaster, Anchor Manufacturer, for an invention for—"Improvements in anchors." *Letters Patent sealed.*
1258. WILLIAM CHISHOLM, of Holloway, in the County of Middlesex, Chemist, for an invention for—"Improvements in the purification of coal gas, for the purposes of illuminating and heating, and obtaining by the ingredients used therefor manures, salts of ammonia, and sulphur." *Letters Patent sealed.*
1259. LOUIS GERVAIS DIEUDONNÉ BUFFET DELMAS DUCAYLA, of Bordeaux, in the Empire of France, Esquire, for an invention for—"An improved manufacture of artificial fuel."—*A communication.* *Letters Patent sealed.*
1260. HENRI JOSEPH SCOUTETTEN, of Metz, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"An improved plastic compound applicable to various ornamental and useful purposes." *Letters Patent sealed.*
1261. GEORGE MARRIOTT, of Hull, in the County of York, Colour Manufacturer, for an invention for—"Improvements in the manufacture of fire-lighters." *Letters Patent sealed.*
1262. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in navigable vessels to be employed in all waters, and to be propelled or impelled by sails, steam-power, or other means."—*A communication.* *Letters Patent sealed.*
1263. SAMUEL ALFRED CARPENTER, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"A new or improved elastic webbing or fabric." *Letters Patent sealed.*
1264. EVAN EVANS, of Birmingham, in the County of Warwick, Pattern-maker, for an invention for—"An improvement or improvements in castors for furniture." *Provisional protection only.*
1265. ADOLPHE AUGUSTIN GIROUARD, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"Certain improvements in paving, and generally in covering surfaces with asphaltic and other similar materials." *Provisional protection only.*



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| SIMSON.<br>23rd May 1853.                    | 1266. WILLIAM SIMSON, of Edinburgh, Scotland, Banker, for an invention for—"Improvements in locks."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                         |
| BELLFORD.<br>23rd May 1853.                  | 1267. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, (City), London, Patent Agent, for an invention for—"An improved method of treating flax and hemp, whereby they are brought to such a state that they may be carded, spun, and woven by machinery such as is now employed in the manufacture of cotton and wool in yarn and cloth."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                         |
| DEVY.<br>23rd May 1853.                      | 1268. AMÉDÉE DEVY, of 73, Grosvenor Street, Grosvenor Square, in the County of Middlesex, for an invention for—"Improvements in storing and preserving grain."— <i>A communication.</i><br><i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                                                                                                             |
| BROWNE.<br>23rd May 1853.                    | 1269. JOHN HARCOURT BROWNE, of Arthur's Seat, Aberdeen, for an invention for—"Improvements in apparatus for bottling, or supplying vessels with fluids."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                    |
| HANNUIC.<br>COLLASSON.<br>23rd May 1853.     | 1270. PAUL HANNUIC and GUSTAVE COLLASSON, of No. 43, Rue de la Victoire in the City of Paris, for an invention for—"Improvements in the treatment of oil."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                            |
| TURNER.<br>23rd May 1853.                    | 1271. HENRY TURNER, of 19, Wilson Street, Limehouse, Engineer, for an invention for—"A new mode of applying hydraulic power to windlasses for weighing anchors and lifting heavy weights."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                  |
| JOHNSON.<br>23rd May 1853.                   | 1272. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"An improved forge-hammer."— <i>A communication from Jean Schmerber.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                  |
| JOHNSON.<br>23rd May 1853.                   | 1273. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the construction of pipe and other junctions."— <i>A communication from Messrs. Laforest and Boudeville, of Rheims, in the Empire of France.</i><br><i>Letters Patent sealed.</i>                                                                                                                                         |
| SLUCE.<br>MATHER.<br>WOOD.<br>23rd May 1853. | 1274. WILLIAM JAMES SLUCE, of Bethnal Green, in the County of Middlesex, Engineer, GEORGE BENJAMIN MATHER, of Derby, in the County of Derby, Gentleman, and PHILIP WOOD, of Stratford, in the County of Essex, Gentleman, for an invention for—"A new apparatus for raising and forcing water or other fluids."<br><i>Provisional protection only.</i>                                                                                                                                       |
| BABB.<br>25th May 1853.                      | 1275. WILLIAM BABB, of Gray's Inn Road, Parish of St. Pancras, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of hair trimmings."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                             |
| BABB.<br>25th May 1853.                      | 1276. WILLIAM BABB, of Gray's Inn Road, Parish of St. Pancras, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of hats, caps, and bonnets."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                    |
| CHURCH.<br>25th May 1853.                    | 1277. WILLIAM CHURCH, of Birmingham, in the County of Warwick, Gentleman, for an invention for—"A new or improved sight for cannons or other ordnance."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                               |
| HIGGINSON.<br>25th May 1853.                 | 1278. GEORGE IRLAM HIGGINSON, of Meeting House Lane, Mary's Abbey, Dublin, Sugar Refiner, for an invention for—"Improvements in machinery or apparatus for evaporating or concentrating liquids."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                           |
| RUSSELL.<br>25th May 1853.                   | 1279. FREDERICK RUSSELL, of Clarence Gardens, Regent's Park, in the County of Middlesex, Mechanic, for an invention for—"Improvements in raising and lowering windows, shutters, blinds, and similar appendages."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                           |
| LOVELL.<br>25th May 1853.                    | 1280. JAMES LOVELL, of Glasgow, in the County of Lanark, Scotland, Gentleman, for an invention for—"Improvements in heating and ventilating." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                  |
| BAUER.<br>25th May 1853.                     | 1281. WILLIAM BAUER, of Munich, in the Kingdom of Bavaria, Engineer, for an invention for—"Improvements in the construction of vessels to be used chiefly at various depths under the surface of the water, and in machinery or apparatus connected therewith for propelling, balancing, and steering the same, and for carrying on operations of various kinds on or under the surface of the water from within, upon objects without such vessels."<br><i>Provisional protection only.</i> |



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| DEVERTE.<br>25th May 1853.       | 1282. LOUIS AUGUSTE DEVERTE, of the firm of Deverte and Charles Eck, of Argenteuil, near Paris, in the Empire of France, and of 16, Castle Street, Holborn, London, for an invention for—"An improved machinery for combing wool."<br><i>Letters Patent sealed.</i>                |
| HALL.<br>25th May 1853.          | 1283. SAMUEL SANDERSON HALL, of the Circus, Minorities, in the City of London, Ship-broker, for an invention for—"Improvements in the means of preventing railway-carriages running off the rails."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                      |
| BUNDERVOET.<br>25th May 1853.    | 1284. PIERRE TROSSAERT BUNDERVOET, of Ghent, in the Kingdom of Belgium Merchant, for an invention for—"Improvements in shutters."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                  |
| NEWTON.<br>25th May 1853.        | 1285. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the generation of steam."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                   |
| CARR.<br>CARR.<br>25th May 1853. | 1286. JONATHAN DODGSON CARR and JOHN CARR, of Carlisle, Biscuit Manufacturers, for an invention for—"An improved construction of oven."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                   |
| MITCHEL.<br>25th May 1853.       | 1287. WILLIAM HASLETT MITCHEL, of the City of Brooklyn, in the County of Kings and State of New York, in the United States of America, for an invention for—"Improvements in means for distributing and composing types."<br><i>Complete specification; Letters Patent sealed.</i> |
| PORECKY.<br>26th May 1853.       | 1288. ALEXANDER PORECKY, of Bishopsgate Street Within, in the City of London, Gentleman, for an invention for—"Improvements in the manufacture of umbrellas and parasols."<br><i>Letters Patent sealed.</i>                                                                        |
| SINGLETON.<br>26th May 1853.     | 1289. THOMAS SINGLETON, of Over Darwen, in the County of Lancaster, Hat and Cap Dealer, for an invention for—"Improvements in looms."<br><i>Letters Patent sealed.</i>                                                                                                             |
| WHITE.<br>26th May 1853.         | 1290. EDWARD WHITE, of Ipswich, in the County of Suffolk, Surveyor, for an invention for—"Improvements in arrangements for supplying waters to towns or other places."<br><i>Provisional protection only.</i>                                                                      |
| SIMPSON.<br>26th May 1853.       | 1291. GEORGE SIMPSON, of Manchester, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in weighing-machines."<br><i>Provisional protection only.</i>                                                                                                   |
| RACSTER.<br>26th May 1853.       | 1292. WILLIAM RACSTER, M.A., Mathematical Master at the Royal Military Academy, Woolwich, in the County of Kent, for an invention for—"Central action buffers and spring-guides for traversing rods."<br><i>Provisional protection only.</i>                                       |
| COWPER.<br>26th May 1853.        | 1293. CHARLES COWPER, of 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the manufacture of iron."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                             |
| WARCUP.<br>26th May 1853.        | 1294. WILLIAM WARCUP, of Lyndhurst Villa, Coronation Road, Bristol, in the County of Somerset, Contractor, for an invention for—"Improvements in the construction of springs for carriages and similar purposes."<br><i>Letters Patent sealed.</i>                                 |
| NORMANDY.<br>26th May 1853.      | 1295. ALPHONSE RENE LE MIRE DE NORMANDY, of Judd Street, in the County of Middlesex, for an invention for—"Improvements in regulating the pressure of steam."<br><i>Letters Patent sealed.</i>                                                                                     |
| SAUNDERS.<br>26th May 1853.      | 1296. JONATHAN SAUNDERS, of St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in the manufacture of railway and other wheel tires."<br><i>Provisional protection only.</i>                                                                           |
| WESTHORP.<br>26th May 1853.      | 1297. THEOPHILUS WESTHORP, of the West India Road, Poplar, for an invention for—"Improvements in the manufacture of oakum."<br><i>Letters Patent sealed.</i>                                                                                                                       |
| HARVEY.<br>26th May 1853.        | 1298. WILLIAM JAMES HARVEY, of 68, South Street, Exeter, Gun Maker, for an invention for—"Improvements in fire-arms."<br><i>Letters Patent sealed.</i>                                                                                                                             |
| BOX.<br>26th May 1853.           | 1299. JOHN BOX, of 27, Rue Pepinière, Brussels, in the Kingdom of Belgium, Furnishing Engineer, for an invention for—"Improvements in supplying water to steam-engine boilers."— <i>Partly a communication.</i><br><i>Letters Patent sealed; specification filed by order.</i>     |



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| WEATHERLEY.<br>JORDAN.<br>26th May 1853. | 1300. WILLIAM WEATHERLEY and WILLIAM JORDAN, of Chartham, in the County of Kent, Engineers, for an invention for—"Improvements in the stuffing-boxes of piston-rods."<br><i>Letters Patent sealed.</i>                                                                                                                                                                   |
| NURSE.<br>26th May 1853.                 | 1301. JOHN NURSE, of Crawford Street, Bryanstone Square, in the County of Middlesex, Coach-builder, for an invention for—"Improved mechanism for fastening and unfastening doors; applicable especially to the doors of carriages."<br><i>Provisional protection only.</i>                                                                                               |
| ROTH.<br>26th May 1853.                  | 1302. JULIUS AUGUSTUS ROTH, of the City of Philadelphia, State of Pennsylvania, in the United States of America, Chemist, for an invention for—"Improvements in the mode of and machinery for treating the fibres of flax, hemp, China grass, and other analogous substances, preparatory to spinning."— <i>Partly a communication.</i><br><i>Letters Patent sealed.</i> |
| HENHAM.<br>27th May 1853.                | 1303. WILLIAM HENHAM, of East Peckham, in the County of Kent, Farmer, for an invention for—"Certain improvements in ploughs."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                           |
| SHIPLEY.<br>27th May 1853.               | 1304. SAMUEL SMITH SHIPLEY, of 3, Fowkes Buildings, Tower Street, London, in the County of Middlesex, Esquire, trading under the firm of Shipley & Co., for an invention for—"Improvements in cases or receptacles for containing a composition shaving-soap or other articles."<br><i>Provisional protection only.</i>                                                  |
| ARNOUX.<br>27th May 1853.                | 1305. CLAUDE ARNOUX, of Rue du Montparnasse, Paris, France, Administrator of the Messageries Generales, and of 4, South Street, Finsbury, London, for an invention for—"Certain improvements in the construction of locomotives."<br><i>Provisional protection only.</i>                                                                                                 |
| SERVAN.<br>27th May 1853.                | 1306. ARISTIDE MICHEL SERVAN, of Philpot Lane, in the City of London, for an invention for—"Improvements in treating fatty matters, to render them suitable for the manufacture of candles."<br><i>Letters Patent sealed.</i>                                                                                                                                            |
| STEVENS.<br>27th May 1853.               | 1307. JOHN LEE STEVENS, of 63, King William Street, in the City of London, Civil Engineer, for an invention for—"Improvements in furnaces."<br><i>Provisional protection only.</i>                                                                                                                                                                                       |
| KEILLER.<br>27th May 1853.               | 1308. ALEXANDER KEILLER, of Dundee, Scotland, Confectioner, for an invention for—"An improved machine for the manufacture of confections, including all kinds of comfits known by the trade as pan goods."<br><i>Letters Patent sealed.</i>                                                                                                                              |
| BONNEY.<br>27th May 1853.                | 1309. WILLIAM WOLFE BONNEY, of West Brompton, in the County of Middlesex, Gentleman, for an invention for—"Improvements in machinery for raising a pile or flue by abrasion on linen, cotton, silk, and other fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                 |
| BENTLEY.<br>27th May 1853.               | 1310. WILLIAM HENRY BENTLEY, of Bedford, in the County of Bedford, White-smith and Engineer, for an invention for—"Improvements in locks and keys, parts of which are applicable to window-sashes and doors."<br><i>Letters Patent sealed.</i>                                                                                                                           |
| BUTTERFIELD.<br>28th May 1853.           | 1311. ILLINGWORTH BUTTERFIELD, of Bradford, in the County of York, Manager, for an invention for—"Improvements in and applicable to looms for weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                 |
| SMITH.<br>28th May 1853.                 | 1312. WILLIAM SMITH, of 10, Salisbury Street, Adelphi, London, Civil Engineer, for an invention for—"Certain improvements in the machinery for and method of making and laying down submarine and other telegraph cables, which machinery is also applicable and is claimed for the making of ropes and cables generally."<br><i>Letters Patent sealed.</i>              |
| NASH.<br>NASH.<br>28th May 1853.         | 1313. EBENEZER NASH, of Duke Street, Lambeth, Tallow Chandler, and JOSEPH NASH, of Thames Parade, Pimlico, Chemist, both in the County of Middlesex, for an invention for—"Improvements in the manufacture of wicks."<br><i>Letters Patent sealed.</i>                                                                                                                   |
| HARRIOTT.<br>28th May 1853.              | 1314. GEORGE HARRIOTT, of Islington, Finsbury, in the County of Kent, Gentleman, for an invention for—"Improvements in agricultural implements employed in crushing and rolling land, and frames for the same."<br><i>Letters Patent sealed.</i>                                                                                                                         |
| BROOMAN.<br>28th May 1853.               | 1315. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in abdominal supporters."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                 |
| HILL.<br>28th May 1853.                  | 1316. CALEB HILL, of Cheddar, in the County of Somerset, Stay Manufacturer, for an invention for—"Improvements in the construction of stays."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                           |



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| FRANCILLON.<br>28th May 1853. | 1317. FRANÇOIS FRANCILLON, of Puteaux, in the Empire of France, for an invention for—"Improvements in dyeing and printing silk, wool, and other animal fibres."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                            |
| BATEMAN.<br>28th May 1853.    | 1318. DANIEL BATEMAN, of Low Moor, near Bradford, in the County of York, Card Maker, for an invention for—"Improvements in carding wool and other fibrous substances, and in the manufacture of cards for that purpose."<br><i>Letters Patent sealed.</i>                                                                                                                                   |
| BINKS.<br>28th May 1853.      | 1319. CHRISTOPHER BINKS, of Albert Villa, North Woolwich, in the County of Kent, for an invention for—"Improvements in manufacturing chlorine, and in obtaining certain salts and other useful products from the residual matters of such manufacture."<br><i>Provisional protection only.</i>                                                                                              |
| MARSTON.<br>28th May 1853.    | 1320. WILLIAM WALKER MARSTON, of the City and State of New York, in the United States of America, Gun Manufacturer, for an invention for—"Improvements in breech loading fire-arms, and in cartridges for use with such arms."<br><i>Provisional protection only.</i>                                                                                                                       |
| BOUSSOIS.<br>28th May 1853.   | 1321. EDWARD DUCLOS de BOUSSOIS, of Paris, Mining Engineer, for an invention for—"Improvements in preventing incrustation of steam-boilers."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                               |
| HILL.<br>28th May 1853.       | 1322. HENRY CHARLES HILL, of Kingsland Road, London, Engineer, for an invention for—"Improvements in machinery and apparatus for the manufacture of hats, caps, and bonnets."<br><i>Provisional protection only.</i>                                                                                                                                                                        |
| SANDERSON.<br>28th May 1853.  | 1323. ALFRED WHALEY SANDERSON, of Cable Street, Lancaster, in the County of Lancaster, Tea, Coffee, and Spice Merchant, for an invention for—"Improvements in preparing effervescing powders."<br><i>Letters Patent sealed.</i>                                                                                                                                                             |
| JOHNSON.<br>28th May 1853.    | 1324. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in removing the gummy or glutinous matter from textile and other materials."<br>— <i>A communication from Messrs. Alcan and Limet, of Paris, in the Empire of France, Civil Engineers.</i><br><i>Letters Patent sealed.</i> |
| BROWN.<br>30th May 1853.      | 1325. JOSEPH BROWN, Upholsterer, 71, Leadenhall Street, in the City of London, for an invention for—"The improvement of elastic spring beds, mattress's, cushions, and all kinds of spring stuffing for upholstery work, generally making them lighter and more portable."<br><i>Letters Patent sealed.</i>                                                                                 |
| WELLS.<br>30th May 1853.      | 1326. GEORGE WELLS, of No. 15, Upper East Smithfield, in the County of Middlesex, Engineer, for an invention for—"The combination of materials for making a more perfect fabric for suction hose, mill-bands, harness, and for all other similar purposes to which the same may be applied."<br><i>Provisional protection only.</i>                                                         |
| MACDONALD.<br>30th May 1853.  | 1327. JOHN MACDONALD, of No. 13, Henry Street, Upper Kennington Lane, Vauxhall, in the County of Surrey, Machinist, for an invention for—"Improvements in and applicable to lamps; also applicable to apparatus for lighthouse signal purposes; part of the invention applicable for other useful purposes."<br><i>Letters Patent sealed.</i>                                               |
| WYMER.<br>30th May 1853.      | 1328. FRANCIS WILLIAM WYMER, of Newcastle-on-Tyne, in the County of Northumberland, Engineer, for an invention for—"Improvements in raising and lowering ships' boats, and in the apparatus connected therewith."<br><i>Provisional protection only.</i>                                                                                                                                    |
| BERNARD.<br>30th May 1853.    | 1329. JULIAN BERNARD, of Guildford Street, Russell Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in obtaining differential mechanical movements."<br><i>Letters Patent sealed.</i>                                                                                                                                                                      |
| GREEN.<br>30th May 1853.      | 1330. WILLIAM GREEN, of Islington, in the County of Middlesex, Engineer, for an invention for—"Improvements in treating or preparing yarns or threads."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                    |
| BOTHAMS.<br>30th May 1853.    | 1331. JOHN CHAMPNEY BOTHAMS, of Vine Cottage, Londonderry Road, Camberwell Green, in the County of Surrey, for an invention for—"Improvements in condensing steam-engines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                |
| BROOMAN.<br>40th May 1853.    | 1332. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in fire-arms."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                     |



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| APPOLD.<br>30th May 1853.            | 1333. JOHN GEORGE APPOLD, of Wilson Street, Finsbury Square, in the County of Middlesex, Fur Skin Dyer, for an invention for—"A new construction of screw-propeller."<br><i>Provisional protection only.</i>                                                        |
| BROOKES.<br>31st May 1853.           | 1334. WILLIAM BROOKES, of 73, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in stoves and grates or fireplaces."<br>— <i>A communication.</i> <i>Letters Patent sealed.</i>                                           |
| SHOEBRIDGE.<br>31st May 1853.        | 1335. WILLIAM FREDERICK SHOEBRIDGE, of Thames Cottage, East Greenwich, in the County of Kent, for an invention for—"Improvements in the manufacture of drain pipes."<br><i>Provisional protection only.</i>                                                         |
| GOODLET.<br>31st May 1853.           | 1336. GEORGE GOODLET, of Leith, in the County of Mid Lothian, Scotland, Postmaster, for an invention for—"Improvements in engines to be worked by steam, air, or air and water combined."<br><i>Letters Patent sealed.</i>                                          |
| HUGHES.<br>DENHAM.<br>31st May 1853. | 1337. HESKETH HUGHES and WILLIAM THOMAS DENHAM, both of Cottage Place, City Road, in the County of Middlesex, Engineers, for an invention for—"Improvements in pianofortes."<br><i>Letters Patent sealed.</i>                                                       |
| NEWTON.<br>31st May 1853.            | 1338. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, London, in the County of Middlesex, Civil Engineer, for an invention for—"An improved construction of hand stamp."<br>— <i>A communication.</i> <i>Letters Patent sealed.</i>            |
| MORRIS.<br>1st June 1853.            | 1339. JOSEPH MORRIS, of Astwood Bank, near Redditch, in the County of Worcester, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of envelopes for needles."<br><i>Letters Patent sealed.</i>                                  |
| WILKINS.<br>1st June 1853.           | 1340. EDWARD WILKINS, of No. 60, Queen's Road, Walworth, in the County of Surrey, Gentleman, for an invention for—"Improvements in pots and vessels for the growth and cultivation of plants."<br><i>Letters Patent sealed.</i>                                     |
| HARDWICK.<br>1st June 1853.          | 1341. ALFRED HARDWICK, of Chatham Street, in the Borough of Liverpool, in the County of Lancaster, for an invention for—"Improvements in propelling vessels."<br><i>Letters Patent sealed.</i>                                                                      |
| AITKEN.<br>1st June 1853.            | 1342. THOMAS AITKEN, of Bury, in the County of Lancaster, Cotton Spinner, for an invention for—"Improvements in furnaces for steam-boilers and other purposes."<br><i>Provisional protection only.</i>                                                              |
| THOMSON.<br>1st June 1853.           | 1343. JOHN WILLIAMS THOMSON, of Forest Hill, Sydenham, in the County of Kent, for an invention for—"Improvements in heating hot-houses, hot beds, pits, conservatories, houses, churches, and other buildings."<br><i>Provisional protection only.</i>              |
| LEMAIRE-DAIME.<br>1st June 1853.     | 1344. JACQUES LOUIS LEMAIRES-DAIMÉ, of Paris, in the Empire of France, and of 16, Castle Street, Holborn, (City,) London, for an invention for—"Certain improvements in play-arms, such as play-cannons, pistols, and guns."<br><i>Provisional protection only.</i> |
| SCOTT.<br>1st June 1853.             | 1345. MAXWELL SCOTT, of Birkenhead, in the County of Chester, Engineer, for an invention for—"Improvements in propelling."<br><i>Letters Patent sealed.</i>                                                                                                         |
| STOCKS.<br>1st June 1853.            | 1346. JAMES STOCKS, junior, of Ovenden, in the Parish of Halifax, in the County of York, Manufacturer, for an invention for—"Improvements in looms for weaving."<br><i>Letters Patent sealed.</i>                                                                   |
| DUNDONALD.<br>1st June 1853.         | 1347. ADMIRAL THE EARL OF DUNDONALD, of Belgrave Road, in the County of Middlesex, for an invention for—"Improvements in apparatus for laying pipes in the earth and in the juncture of such pipes."<br><i>Complete specification; Letters Patent sealed.</i>       |
| KNOWLES.<br>2nd June 1853.           | 1348. WILLIAM KNOWLES, of Bolton le Moors, in the County of Lancaster, Cotton Spinner, for an invention for—"Improvements in machinery for warping and beaming yarns or threads."<br><i>Letters Patent sealed.</i>                                                  |
| WHITWORTH.<br>2nd June 1853.         | 1349. JOSEPH WHITWORTH, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery for cutting and harvesting corn, grass, and other crops."<br><i>Provisional protection only.</i>                                       |
| WHITWORTH.<br>2nd June 1853.         | 1350. JOSEPH WHITWORTH, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery for perforating or punching paper, card, and other materials."<br><i>Letters Patent sealed.</i>                                        |



JOHNSON.  
2nd June 1853.

1351. JOHN ROBERT JOHNSON, of Stanbrook Cottage, Hammersmith, in the County of Middlesex, Chemist, for an invention for—"Improvements in the manufacture of type and articles used in letterpress printing." *Letters Patent sealed.*

THOROLD.  
2nd June 1853.

1352. WILLIAM THOROLD, of Norwich, Civil Engineer, for an invention for—"Improvements in the construction of portable houses, and in machinery for raising, moving, and lowering the same." *Letters Patent sealed.*

HATTERSLEY.  
2nd June 1853.

1353. RICHARD LONGDEN HATTERSLEY, of Keighley, in the County of York, Machine Maker, for an invention for—"Improvements in machinery for forging iron and other metals." *Letters Patent sealed.*

SMITH.  
2nd June 1853.

1354. WILLIAM HAMMOND SMITH, of Gloucester Row, Walworth, in the County of Surrey, for an invention for—"Improvements in the manufacture of parchment." *Letters Patent sealed.*

MADORÉ.  
NEUBURGER.  
2nd June 1853.

1355. ANTOINE REMI CYR MADORÉ and DANIEL NEUBURGER, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"Certain improvements in the manufacture of shirts." *Provisional protection only.*

HUGHES.  
DENHAM.  
2nd June 1853.

1356. HESKETH HUGHES and WILLIAM THOMAS DENHAM, both of Cottage Place, City Road, in the County of Middlesex, Manufacturers, for an invention for—"Improvements in machinery for weaving." *Letters Patent sealed.*

BARTLEET.  
2nd June 1853.

1357. ROBERT SMITH BARTLEET, of Redditch, in the County of Worcester, for an invention for—"Improvements in the manufacture of needles." *Provisional protection only.*

CUMMINS.  
KENIPECK.  
2nd June 1853.

1358. NICHOLAS MARSHALL CUMMINS, of Cork, and JOHN DE COCK KENIPECK, of Belfast, both in the Kingdom of Ireland, Gentlemen, for an invention for—"Improved machinery for removing the seed from flax and other plants, and breaking the bolls or pods." *Provisional protection only.*

BOYD.  
2nd June 1853.

1359. WILLIAM BOYD, of Belfast, in the Kingdom of Ireland, Manufacturing Chemist, for an invention for—"Improved apparatus for manufacturing chlorine or chlorides." *Letters Patent sealed.*

NEWTON.  
2nd June 1853.

1360. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of soles for boots, shoes, and other coverings for the feet."—*A communication.* *Letters Patent sealed.*

WAHLER.  
3rd June 1853.

1361. WILLIAM WAHLER, of 22, Myddleton Street, Clerkenwell, Middlesex, Lithographic Printer, for an invention for—"Lithographic printing, being a self-acting lithographic printing machine, to be propelled by hand, steam, or other motive-power." *Provisional protection only.*

DURANDEAU.  
3rd June 1853.

1362. JEAN DURANDEAU, junior, of Paris, in the Empire of France, and of Castle Street, Holborn (City), London, General Manager of the firm Durandean, junior, and Chauveau, for an invention for—"Certain means of obtaining marks and designs in paper." *Letters Patent sealed.*

GOSSART.  
3rd June 1853.

1363. FERDINAND LOUIS GOSSART, of Paris, in the Empire of France, 52, Rue Montmartre, and of 16, Castle Street, Holborn (City), London, for an invention for—"A system of permanent circulation of caloric, intended to produce and overheat steam, gas, and liquids." *Letters Patent sealed.*

MAYELSTON.  
3rd June 1853.

1364. JAMES MAYELSTON, of Elloughton, in the County of York, Gentleman, for an invention for—"Certain improvements in the manufacture and refining of sugar." *Letters Patent sealed.*

WILSON.  
3rd June 1853.

1365. JAMES SPOTSWOOD WILSON, of Tavistock Place, Russell Square, in the County of Middlesex, Civil Engineer, for an invention for—"A machine or apparatus for digging or raising earth, and applicable to agricultural or engineering purposes." *Letters Patent sealed.*

KENDRICK.  
3rd June 1853.

1366. ISAAH KENDRICK, Foreman to Messrs. Horton and Son, of Southwark, in the County of Surrey, for an invention for—"Improvements in steam-boilers." *Letters Patent sealed.*



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| DAFT.<br>3rd June 1853.      | 1367. THOMAS BARNABAS DAFT, of Lezange Lodge, Isle of Man, for an invention for—"Improvements in inkstands."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                              |
| ROBBINS.<br>3rd June 1853.   | 1368. RICHARD ROBBINS, of Dunchurch, in the County of Warwick, Corn-miller, for an invention for—"Certain improvements in mills for grinding wheat and other grain."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                |
| HAYES.<br>3rd June 1853.     | 1369. JAMES HAYES, of Elton, in the County of Huntingdon, Iron-founder, for an invention for—"Improved machinery for raising and stacking straw, hay, corn, and other agricultural produce."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                              |
| MAUDE.<br>3rd June 1853.     | 1370. WILLIAM EDWARD MAUDE, of Liverpool, in the County of Lancaster, Merchant, for an invention for—"Improvements in carriages."<br><i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                              |
| MAUDE.<br>3rd June 1853.     | 1371. WILLIAM EDWARD MAUDE, of Liverpool, in the County of Lancaster, Merchant, for an invention for—"Improved apparatus for steering ships."<br><i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                  |
| LENZ.<br>4th June 1853.      | 1372. CARL FEDOR LENZ, Merchant, of Berlin, in Prussia, and in London, 52, Great Titchfield Street, in the County of Middlesex, for an invention for—"A mechanism of a new construction, having as its end the prevention of the loss of force caused till now by friction, to diminish the oiling till now necessary, and to prevent the heating of the axletrees in revolving."<br><i>Partly a communication.</i><br><i>Provisional protection only.</i> |
| BRADBURN.<br>4th June 1853.  | 1373. WILLIAM BRADBURN, of Shifnal, in the County of Salop, Farmer and Dealer in Artificial Manures, for an invention for—"The improved manufacture of greases and oils."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                           |
| GYDE.<br>4th June 1853.      | 1374. JOSEPH GYDE, of Tooley Street, in the Borough of Southwark, in the County of Surrey, Millwright and Engineer, for an invention for—"Improvements in mills and apparatus for grinding and dressing corn and various substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                     |
| CHISHOLM.<br>4th June 1853.  | 1375. JOHN CHISHOLM, of Holloway, in the County of Middlesex, Practical Chemist, for an invention for—"Improvements in the production or manufacture of artificial manures."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                              |
| KERR.<br>4th June 1853.      | 1376. JOHN JAMES KERR, Lieutenant in the Royal Navy, of 1, Gloucester Grove West, Old Brompton, for an invention for—"Improvements in the manufacture of cartridges."<br><i>Complete specification ; Letters Patent sealed.</i>                                                                                                                                                                                                                            |
| BETJEMANN.<br>4th June 1853. | 1377. HENRY JOHN BETJEMANN, of 545, New Oxford Street, in the County of Middlesex, for an invention for—"Improvements in chairs."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                         |
| BEAUMONT.<br>4th June 1853.  | 1378. EDWARD BLACKETT BEAUMONT, of Woodhall, Barnsley, in the County of York, Gentleman, for an invention for—"Certain improvements in bricks or tiles."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                  |
| BURCH.<br>4th June 1853.     | 1379. JOSEPH BURCH, of Crag Hall, near Macclesfield, in the County of Chester, Carpet Manufacturer, for an invention for—"Certain improvements in fans, blasts, or blowing apparatus."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                    |
| DRAY.<br>4th June 1853.      | 1380. WILLIAM DRAY, of the firm of William Dray & Co., of Swan Lane, London Bridge, Agricultural Implement Makers, for an invention for—"An improved method of driving shafting."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                         |
| BIRAM.<br>4th June 1853.     | 1381. BENJAMIN BIRAM, of Wentworth, in the County of York, Gentleman, for an invention for—"Improvements in working and ventilating mines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                               |
| NASH.<br>4th June 1853.      | 1382. THOMAS RUSS NASH, of Leigh Street, in the County of Middlesex, Surveyor, for an invention for—"Improvements in filters."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                            |
| SCHIELE.<br>4th June 1853.   | 1383. CHRISTIAN SCHIELE, of Oldham, in the County of Lancaster, Engineer, for an invention for—"Improvements in pressure indicators."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                               |
| WHITEHEAD.<br>4th June 1853. | 1384. JOHN WHITEHEAD, of Preston, in the County of Lancaster, Implement Maker, for an invention for—"Improvements in manufacturing pipes or hollow articles from plastic materials."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                |



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| RICHBELL.<br>4th June 1853.                   | 1385. THOMAS RICHBELL, of Lambeth, in the County of Surrey, Architect, for an invention for—"Improvements in the application of slate for building purposes."<br><i>Provisional protection only.</i>                                                                                                                                                                                               |
| CARTER.<br>MARRIOTT.<br>6th June 1853.        | 1386. GEORGE CARTER, of Mottingham, in the County of Kent, Gentleman, and GEORGE MARRIOTT, of Hull, in the County of York, Colour Manufacturer, for an invention for—"Improvements in the manufacture of white lead."<br><i>Letters Patent sealed.</i>                                                                                                                                             |
| GUNDRY.<br>6th June 1853.                     | 1387. JOSEPH GUNDRY, of Bridport, in the County of Dorset, Net Manufacturer, for an invention for—"A certain improvement in the manufacture of fishing and other nets."<br><i>Provisional protection only.</i>                                                                                                                                                                                     |
| FRIEND.<br>6th June 1853.                     | 1388. JOHN WALTER FRIEND, of Canute Road, in the Town and County of Southampton, for an invention for—"An improved method of measuring and registering the distance run by ships and boats proceeding through the water, which is also applicable to measuring and registering tides and currents."<br><i>Letters Patent sealed.</i>                                                               |
| VON RATHEN.<br>6th June 1853.                 | 1389. ANTHONY BERNHARD BARON VON RATHEN, of Wells Street, in the County of Middlesex, for an invention for—"Improvements in the mode of, and in engines for, applying motive-power."<br><i>Letters Patent sealed.</i>                                                                                                                                                                              |
| LOTT.<br>6th June 1853.                       | 1390. FREDERICK LOTT, of No. 9, Bloomfield Place, Pimlico, in the County of Middlesex, for an invention for—"Improvements in cartridges."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                   |
| NICKELS.<br>HOBSON.<br>6th June 1853.         | 1391. CHRISTOPHER NICKELS, of Albany Road, Camberwell, Gentleman, and JAMES HOBSON, of Leicester, Mechanist, for an invention for—"Improvements in weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                      |
| BARKER.<br>6th June 1853.                     | 1392. DELABERE BARKER, of Douglas Road, Islington, in the County of Middlesex, Gentleman, for an invention for—"Certain improvements in the manufacture of blinds, shades, and other screens from glass and other vitreous substances; also in the method or methods of raising, lowering, folding, and regulating such blinds, shades, and other screens."<br><i>Provisional protection only.</i> |
| WIGLESWORTH.<br>6th June 1853.                | 1393. HENRY WIGLESWORTH, of Newbury, in the County of Berks, Bachelor of Medicine, for an invention for—"Improvements in connecting together or coupling railway-carriages."<br><i>Provisional protection only.</i>                                                                                                                                                                                |
| LEVERSON.<br>7th June 1853.                   | 1394. GEORGE BAZETT COLVIN LEVERSON, of No. 12, Saint Helen's Place, in the City of London, Merchant, for an invention for—"A new application, construction, and arrangement of springs for carriages, and such like purposes."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                          |
| ROWE.<br>ANDREW.<br>ANDREW.<br>7th June 1853. | 1395. HENRY GEORGE ROWE, ALBERT GEORGE ANDREW, and WILLIAM HENRY ANDREW, trading under the style or firm of George Butler and Company, of Sheffield, in the County of York, Cutlery Manufacturers, for an invention for—"Improvements in the mode of fastening the handles of table knives and forks."<br><i>Letters Patent sealed.</i>                                                            |
| LIPSCOMBE.<br>7th June 1853.                  | 1396. FREDERICK LIPSCOMBE, of 233, Strand, in the County of Middlesex, Water-filter Manufacturer, for an invention for—"Improvements in the construction of ships and boats."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                     |
| LAVENDER.<br>7th June 1853.                   | 1397. EDWARD LAVENDER, of Deptford, in the County of Kent, General Trader, for an invention for—"Improvements in the manufacture of fuel, and in machinery connected therewith."<br><i>Provisional protection only.</i>                                                                                                                                                                            |
| NEWTON.<br>7th June 1853.                     | 1398. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"A novel construction of apparatus to be used as a chest expander and as a uterine or abdominal supporter."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                    |
| M'DOUGALL.<br>7th June 1853.                  | 1399. ALEXANDER M'DOUGALL, of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of potash and soda-ash."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                       |



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| DAVIS.<br>BLOOMER.<br>BLOOMER.<br>7th June 1853. | 1400. THOMAS DAVIS, of West Bromwich, in the County of Stafford, BOAZ BLOOMER, of Dudley, in the County of Worcester, and BOAZ BLOOMER, junr., of Pelsall, in the County of Stafford, Ironmasters, for an invention for—"Improvements in the manufacture and piling of iron to be used in the production of railway chairs."<br><i>Complete specification; protection for SIX months only.</i> |
| COUSENS.<br>7th June 1853.                       | 1401. ROBERT BOUTY COUSENS, of 50, Haliford Street, Islington, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture of casks or wooden vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                                                       |
| DANCHELL.<br>STARTIN.<br>8th June 1853.          | 1402. FREDERICK LUDEWIG HAHN DANCHELL, of Elm Grove Villas, Acton Green, in the County of Middlesex, Engineer, and WILLIAM STARTIN, of Heathfield Terrace, Turnham Green, in the same County, Engineer, for an invention for—"An improved mode of obtaining auriferous deposits from the beds of rivers and lakes, and from pits containing water."<br><i>Letters Patent sealed.</i>           |
| TILLET.<br>8th June 1853.                        | 1403. GEORGE TILLET, of Kentish Town, in the County of Middlesex, for an invention for—"Improvements in portable houses and buildings."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                       |
| HORROCKS.<br>HORROCKS.<br>8th June 1853.         | 1404. JOHN HORROCKS, junior, and JAMES DUNLOP HORROCKS, of Down Street, Piccadilly, in the County of Middlesex, for an invention for—"Improvements in the manufacture of detonating or percussion caps."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                             |
| BOTT.<br>RUSHTON.<br>9th June 1853.              | 1405. GEORGE BOTT, of Birmingham, in the County of Warwick, Retail Brewer, and WILLIAM RUSHTON, of Aston, near Birmingham, Maltster, for an invention for—"A new or improved method of preventing collisions on railways."<br><i>Provisional protection only.</i>                                                                                                                              |
| BARLOW.<br>9th June 1853.                        | 1406. HENRY BERNOULLI BARLOW, of Manchester, in the County of Lancaster, Consulting Engineer and Patent Agent, for an invention for—"Improvements in machinery for spinning, doubling, and twisting cotton and other fibrous substances."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                            |
| GARROOD.<br>9th June 1853.                       | 1407. GEORGE WILLIAM GARROOD, of Maldon, Essex, for an invention for—"Improvements in propelling vessels."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                              |
| PONÇON.<br>9th June 1853.                        | 1408. ANTOINE PONÇON, of Marseilles, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"Certain improvements in obtaining motive power."<br><i>Complete specification; Letters Patent sealed.</i>                                                                                                                                                |
| ARNOUX.<br>9th June 1853.                        | 1409. CLAUDE ARNOUX, of Paris, France, Gentleman, and of 4, South Street, Finsbury, London, for an invention for—"A new system of towing and traction."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                       |
| MUIR.<br>9th June 1853.                          | 1410. WILLIAM MUIR, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in turning lathes, a part of which improvements is applicable to other useful purposes."<br><i>Letters Patent sealed.</i>                                                                                                                                                          |
| SMITH.<br>9th June 1853.                         | 1411. JOSEPH SMITH, of Bradford, in the County of York, Worsted Spinner, for an invention for—"Certain improvements in machinery for preparing and spinning wool, hair, silk, flax, and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                                                                                            |
| SMITH.<br>9th June 1853.                         | 1412. JOSEPH SMITH, of Bradford, in the County of York, Worsted Spinner, for an invention for—"Certain improvements in combing wool and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                            |
| MANIERE.<br>9th June 1853.                       | 1413. EDWARD MANIERE, of Bedford Row, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of paper."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                 |
| BROOKES.<br>9th June 1853.                       | 1414. WILLIAM BROOKES, of 73, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in treating fabrics suitable for floor-cloths, covers, and such like articles."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                               |
| BROOKES.<br>9th June 1853.                       | 1415. WILLIAM BROOKES, of 73, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the manufacture of boxes and other hollow receptacles."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                                    |



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| <p>NAPIER.<br/>RANKINE.<br/>9th June 1853.</p> <p>CHESNEAU.<br/>10th June 1853.</p> <p>SYMONDS.<br/>10th June 1853.</p> <p>MOORE.<br/>10th June 1853.</p> <p>FRANKHAM.<br/>10th June 1853.</p> <p>NEWTON.<br/>10th June 1853.</p> <p>BROOMAN.<br/>10th June 1853.</p> <p>WESTWOOD.<br/>BAILLIE.<br/>10th June 1853.</p> <p>NICKELS.<br/>HOBSON.<br/>11th June 1853.</p> <p>BINKS.<br/>11th June 1853.</p> <p>O'CONNOR.<br/>13th June 1853.</p> <p>SMITH.<br/>13th June 1853.</p> <p>SMITH.<br/>13th June 1853.</p> <p>MARSH.<br/>MARSH.<br/>MARSH.<br/>MARSH.<br/>13th June 1853.</p> <p>SPENCER.<br/>13th June 1853.</p> <p>PERRY.<br/>12th June 1853.</p> | <p>1416. JAMES ROBERT NAPIER, of Lancefield House, Glasgow, in the County of Lanark, Mechanical Engineer and Iron Ship Builder, and WILLIAM JOHN MACQUORN RANKINE, of Rosebank House, in the Parish of Rutherglen and County aforesaid, Civil Engineer, for an invention for—"Improvements in engines for developing mechanical power by the action of heat on air and other elastic fluids."<br/><i>Letters Patent sealed.</i></p> <p>1417. AUGUSTE CHESNEAU, of Leicester, in the County of Leicester, Oil Merchant, for an invention for—"A new method of obtaining steam power."<br/><i>Provisional protection only.</i></p> <p>1418. HENRY ELD SYMONDS, of Seacombe, near Liverpool, for an invention for—"Improvements in preserving meat."<br/><i>Provisional protection only.</i></p> <p>1419. JOSIAH MOORE, of Clerkenwell Close, in the County of Middlesex, Clock Manufacturer, for an invention for—"Improvements in respirators."<br/><i>Letters Patent sealed.</i></p> <p>1420. SAMUEL FRANKHAM, of Greenland Place, Judd Street, in the County of Middlesex, Engineer, for an invention for—"An improved construction of coupling joint, applicable to pipes, vessels of capacity, and other like uses."<br/><i>Letters Patent sealed.</i></p> <p>1421. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improvement in spinning machinery."—<i>A communication.</i> <i>Letters Patent sealed.</i></p> <p>1422. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the manufacture of paper."—<i>A communication.</i> <i>Letters Patent sealed.</i></p> <p>1423. JOSEPH WESTWOOD and ROBERT BAILLIE, both of Poplar, in the County of Middlesex, Iron Ship Builders, for an invention for—"Improvements in the construction of iron ships."<br/><i>Letters Patent sealed.</i></p> <p>1424. CHRISTOPHER NICKELS, of the Albany Road, in the County of Surrey, and JAMES HOBSON, of Leicester, for an invention for—"Improvements in the manufacture of carpets and other piled fabrics."<br/><i>Letters Patent sealed.</i></p> <p>1425. CHRISTOPHER BINKS, of Albert Villa, North Woolwich, in the County of Kent, for an invention for—"Improvements in dryers, and in preparing drying oils for oil paints, varnishes, and other uses."<br/><i>Letters Patent sealed.</i></p> <p>1426. HUGH O'CONNOR, of Frederick Street, Limerick, for an invention for—"Digging the soil by means of machinery with horse-power."<br/><i>Provisional protection only.</i></p> <p>1427. WILLIAM HENRY SMITH, of Bloomsbury, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the permanent way of railways."<br/><i>Letters Patent sealed.</i></p> <p>1428. WILLIAM SMITH, Manufacturer, of Sheffield, in the County of York, for an invention for—"Improvements in the mode of manufacturing metallic handles for knives and forks, backs for razors, bows for scissors, and the relative parts of such like instruments."<br/><i>Letters Patent sealed.</i></p> <p>1429. JOHN MARSH, THEOPHILUS MARSH, JAMES MARSH, and WALTER MARSH, trading under the style or firm of Marsh Brothers and Company, of Sheffield, in the County of York, Manufacturers, for an invention for—"An improved mode of fastening the handles of table knives and forks."<br/><i>Letters Patent sealed.</i></p> <p>1430. JOSEPH SPENCER, of Bilston, in the County of Stafford, Ironfounder and Engineer, for an invention for—"A new or improved cupelo."<br/><i>Letters Patent sealed.</i></p> <p>1431. THOMAS JAMES PERRY, of the Lozells, in the Parish of Aston juxta Birmingham, in the County of Warwick, Engine Turner, for an invention for—"An improvement or improvements in raising and lowering Venetian and other blinds; applicable also to the raising and lowering of other bodies."<br/><i>Letters Patent sealed.</i></p> |
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| BUCHANAN.<br>13th June 1853.             | 1432. JOHN BUCHANAN, of Leamington, in the County of Warwick, for an invention for—"Certain improvements in the form and construction of ships, vessels, or boats."<br><i>Provisional protection NOT granted.</i>                                                                                                                                                   |
| PAINE.<br>PAINE.<br>13th June 1853.      | 1433. WILLIAM DAVID PAINE, of Thomas Street, Stamford Street, Lambeth, in the County of Surrey, Mechanical Engineer, and GEORGE ALFRED PAINE, of Clark's Mews, Saint Marylebone, in the County of Middlesex, Clock Maker, for an invention for—"An improvement in the construction of steam-boilers and in steam-boiler furnaces."<br><i>Letters Patent sealed.</i> |
| FREMIN.<br>13th June 1853.               | 1434. GONSAL AUGUSTE HIACINTHE JUSTIN FREMIN, of 39, Rue de l'Echiquier, Paris, France, and 4, South Street, Finsbury, London, Gentleman, for an invention for—"Certain improvements in the construction of steam-boats."<br><i>Provisional protection only.</i>                                                                                                    |
| HOPKINS.<br>13th June 1853.              | 1435. ROBERT HOPKINS, of Manchester, in the County of Lancaster, Mechanical Engineer, for an invention for—"Improvements in machinery or apparatus for cutting and shaping cork, wood, and other similar substances."<br><i>Letters Patent sealed.</i>                                                                                                              |
| WEBB.<br>13th June 1853.                 | 1436. JOSEPH WEBB, of Mayfield Terrace, Dalston, in the County of Middlesex, for an invention for—"Improvements in obtaining motive-power."<br><i>Provisional protection only.</i>                                                                                                                                                                                  |
| CRAIG.<br>14th June 1853.                | 1437. WILLIAM G. CRAIG, of Newport, Monmouth, Engineer, for an invention for—"Improvements in axle-boxes, guides, and bearings of locomotive engines and carriages, parts of which improvements are applicable to the bushes and bearings of machinery."<br><i>Letters Patent sealed.</i>                                                                           |
| SIEVIER.<br>CROSBY.<br>14th June 1853.   | 1438. ROBERT WILLIAM SIEVIER, of Upper Holloway, in the County of Middlesex, Gentleman, and JAMES CROSBY, of Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in looms for weaving."<br><i>Letters Patent sealed.</i>                                                                                                       |
| PENNY.<br>ROGERS.<br>14th June 1853.     | 1439. JOSEPH H. PENNY and THOMAS B. ROGERS, of the City and State of New York, America, for an invention for—"A new and useful improvement in the manner of constructing machinery for propelling vessels and other machinery, which they term 'A crank propeller.'"<br><i>Letters Patent sealed.</i>                                                               |
| JOHNSON.<br>14th June 1853.              | 1440. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in railway-brakes."— <i>A communication from Francis A. Stevens, of Burlington, in the State of Vermont, in the United States of America.</i> <i>Letters Patent sealed.</i>                         |
| RICHARDSON.<br>14th June 1853.           | 1441. THOMAS RICHARDSON, of Newcastle-upon-Tyne, Manufacturer, for an invention for—"Improvements in the manufacture of certain salts of magnesia and a red coloring matter."<br><i>Letters Patent sealed.</i>                                                                                                                                                      |
| TALABOT.<br>STIRLING.<br>14th June 1853. | 1442. JOSEPH LÉON TALABOT, of Chaussée d'Antin, No. 57, Paris, and JOHN DAVIE MORRIES STIRLING, of the Larches, near Birmingham, for an invention for—"Improvements in the manufacture of iron."<br><i>Letters Patent sealed.</i>                                                                                                                                   |
| NEWTON.<br>14th June 1853.               | 1443. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved mode of manufacturing cast steel."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                          |
| BURSTALL.<br>15th June 1853.             | 1444. GEORGE BURSTALL, of Fenchurch Street, in the City of London, Merchant, for an invention for—"Improvements in the bleaching of oils and fats, and in machinery and apparatus connected therewith."<br><i>Provisional protection only.</i>                                                                                                                      |
| PARSEY.<br>15th June 1853.               | 1445. ARTHUR PARSEY, of No. 3, Crescent Place, Burton Crescent, in the Parish of St. Pancras, in the County of Middlesex, for an invention for—"A revolving engine to be worked by steam, air, gases, or water."<br><i>Letters Patent sealed.</i>                                                                                                                   |
| BUTTERWORTH.<br>15th June 1853.          | 1446. THOMAS BUTTERWORTH, of Meanwood, in the County of Yorkshire, Gentleman, for an invention for—"A machine for ploughing land, harrowing, and crushing clods at one operation."<br><i>Letters Patent sealed.</i>                                                                                                                                                 |
| REEVES.<br>15th June 1853.               | 1447. CHARLES EVANS REEVES, of No. 14, Harrington Square, Regent's Park, in the County of Middlesex, Medical Doctor, for an invention for—"Improvements of guns and other fire-arms, and in the manner of loading and discharging same, and improvements in balls, cartridges, and explosive compounds."<br><i>Provisional protection NOT granted.</i>              |



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| <p>ROBERTSON.<br/>15th June 1853.</p> <p>WILLIAMS.<br/>15th June 1853.</p> <p>MACINTOSH.<br/>15th June 1853.</p> <p>DEHAU.<br/>15th June 1853.</p> <p>DEHAU.<br/>15th June 1853.</p> <p>DILKES.<br/>TURNER.<br/>15th June 1853.</p> <p>PAYNE.<br/>15th June 1853.</p> <p>GOSSAGE.<br/>15th June 1853.</p> <p>ELLIOTT.<br/>BROWN.<br/>15th June 1853.</p> <p>MAUREL.<br/>15th June 1853.</p> <p>BADDELEY.<br/>16th June 1853.</p> <p>WALMESLEY.<br/>HOLMES.<br/>16th June 1853.</p> <p>FIELD.<br/>16th June 1853.</p> <p>CHRISTOPHER.<br/>GIDLEY.<br/>16th June 1853.</p> <p>BLAIR.<br/>16th June 1853.</p> <p>GIBSON.<br/>16th June 1853.</p> <p>DUMOULIN.<br/>16th June 1853.</p> | <p>1448. ALEXANDER ROBERTSON, of Holloway, in the County of Middlesex, Engineer, for an invention for—"Improvements in vessels or cases for storing and preserving edible substances."<br/><i>Provisional protection only.</i></p> <p>1449. CHARLES WYE WILLIAMS, of Liverpool, in the County Palatine of Lancaster, Gentleman, for an invention for—"Improvements in the manufacture of sheet-iron, and of iron plates used for boilers, vessels, buildings, and other like purposes."<br/><i>Letters Patent sealed.</i></p> <p>1450. JOHN MACINTOSH, of Pall Mall East, in the County of Middlesex, C.E., for an invention for—"Improvements in the construction of portable boats or vessels and buoys."<br/><i>Letters Patent sealed.</i></p> <p>1451. JULES DEHAU, of 39, Rue Pigale, Paris, for an invention for—"Improvements in the manufacture of yarn, and fabricating articles therefrom."<br/><i>Letters Patent sealed.</i></p> <p>1452. JULES DEHAU, of 39, Rue Pigale, Paris, for an invention for—"Improvements in the manufacture of woven fabrics, yarn, cordage, ropes, paper, and pasteboard, by the application of a material not hitherto used in Great Britain for such purposes."<br/><i>Letters Patent sealed.</i></p> <p>1453. JAMES DILKES and EDWARD TURNER, of Leicester, for an invention for—"Improvements in door-springs."<br/><i>Letters Patent sealed.</i></p> <p>1454. JOHN JEREMIAH PAYNE, of Upper King Street, Bloomsbury, in the County of Middlesex, for an invention for—"Certain improvements in axles."<br/><i>Provisional protection only.</i></p> <p>1455. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, Manufacturing Chymist, for an invention for—"Improvements in obtaining certain saline compounds from solutions containing such compounds."<br/><i>Letters Patent sealed.</i></p> <p>1456. JOHN ELLIOTT, of Oak Lane, Limehouse, in the County of Middlesex, Engineer, and JOHN BROWN, of the same place, Engineer, for an invention for—"Improved machinery for making rivets, spikes, and screw-blanks."<br/><i>Letters Patent sealed.</i></p> <p>1457. TIMOLÉON ZOÉ LOUIS MAUREL, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"Certain improvements in horological alarms."<br/><i>Letters Patent sealed.</i></p> <p>1458. WILLIAM BADDELEY, of No. 13, Angell Terrace, Islington, in the County of Middlesex, Engineer, for an invention for—"An improved label-damper."<br/><i>Letters Patent sealed.</i></p> <p>1459. EDWARD WALMESLEY, of Heaton Norris, in the County of Lancaster, Spinner, and JOHN HOLMES, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in and applicable to steam-engines."<br/><i>Letters Patent sealed.</i></p> <p>1460. WILLIAM HENRY GREY FIELD, of Kennington, in the County of Surrey, for an invention for—"Certain improvements in the construction of barges and vessels, and in the mode of steering."<br/><i>Provisional protection only.</i></p> <p>1461. WILLIAM CHRISTOPHER, of Euston Square, and GUSTAVUS GIDLEY, of Robert Street, Hoxton, for an invention for—"Improvements in abstracting sulphur and other matters from vulcanized indian-rubber."<br/><i>Letters Patent sealed.</i></p> <p>1462. JOHN BLAIR, of the firm of John Blair &amp; Co., New Milns, Ayrshire, Scotland, Cutters, for an invention for—"A new and improved mode of cutting lappet-cloths or other similar fabrics."<br/><i>Letters Patent sealed.</i></p> <p>1463. JAMES WILLIAM GIBSON, of 120, Long Acre, St. Martin's in the Fields, London, for an invention for—"A new method of pavement, tending to secure the evenness of the road and proper adhesion to the foot."<br/><i>Letters Patent sealed.</i></p> <p>1464. JULES ALEXIS ADRIEN DUMOULIN, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an improved invention for—"An improved instrument for measuring and tracing."<br/><i>Letters Patent sealed.</i></p> |
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| ILSLEY.<br>16th June 1853.                     | 1465. JOSEPH ILSLEY, of Lisbon, in the Kingdom of Portugal, Professor of Physic, for an invention for—"Improved telegraphic apparatus."<br><i>Letters Patent sealed.</i>                                                                                                                                                                            |
| BROOMAN.<br>16th June 1853.                    | 1466. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in machinery for sawing stone and marble."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                           |
| FONTAINE MOREAU.<br>16th June 1853.            | 1467. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of 39, Rue de l'Echiquier, Paris, France, and 4, South Street, Finsbury, London, Patent Agent, for an invention for—"An improved process for preserving milk, and its application to several organic products and alimentary substances."— <i>A communication.</i><br><i>Letters Patent sealed.</i> |
| FONTAINE MOREAU.<br>16th June 1853.            | 1468. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the Patent Office for Inventions, No. 39, Rue de l'Echiquier, Paris, and 4, South Street, Finsbury, London, Patent Agent, for an invention for—"Improvements in the preparation of certain vegetable and alimentary substances."— <i>A communication.</i><br><i>Letters Patent sealed.</i>       |
| ROOSEVELT.<br>16th June 1853.                  | 1469. CLINTON ROOSEVELT, of the City, County, and State of New York, United States of America, for an invention for—"Reducing the friction of the journals of railway and other carriages, which is also applicable to the journals of machinery."<br><i>Letters Patent sealed.</i>                                                                 |
| GLOVER.<br>16th June 1853.                     | 1470. ROBERT MORTIMER GLOVER, of Newcastle-upon-Tyne, M.D., for an invention for—"Improvements in the production of chlorine, and for the manufacture of black oxide of manganese."<br><i>Provisional protection only.</i>                                                                                                                          |
| FINCH.<br>16th June 1853.                      | 1471. BENJAMIN FINCH, of the Seville Works, Dublin, Engineer, for an invention for—"Improvements in apparatus for supplying water to steam-boilers."<br><i>Letters Patent sealed.</i>                                                                                                                                                               |
| WARREN.<br>16th June 1853.                     | 1472. JOSEPH WARREN, of Maldon, in the County of Essex, Iron-founder, for an invention for—"Improvements in ploughs."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                              |
| SOLOMON.<br>MILLS.<br>16th June 1853.          | 1473. SOLOMON SOLOMON, of Aldgate, and SAMUEL MILLS, of St. George's-in-the-East, both in the County of Middlesex, for an invention for—"Improvements in axle-boxes for locomotive-engines, railway and other carriages, applicable to the bearings of machinery."<br><i>Letters Patent sealed.</i>                                                 |
| RODGERS.<br>17th June 1853.                    | 1474. EDWARD RODGERS, of Livsey Street, in the City of Manchester and County of Lancaster, Machine-joiner, for an invention for—"An improvement in looms for weaving."<br><i>Provisional protection only.</i>                                                                                                                                       |
| WAUD.<br>WAUD.<br>BUSFIELD.<br>17th June 1853. | 1475. CHRISTOPHER WAUD and EDWARD WAUD, of Bradford, in the County of York, Worsted Spinners, and WILLIAM BUSFIELD, of the same place, Overlooker to the said Messrs. Waud, for an invention for—"Improvements in preparing wool and other fibrous substances."<br><i>Letters Patent sealed; no specification filed.</i>                            |
| BELLFORD.<br>17th June 1853.                   | 1476. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, London, Patent Agent, for an invention for—"Improvements in machinery for pulverizing and washing quartz or ore, and for amalgamating the gold contained therein."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                |
| BELLFORD.<br>17th June 1853.                   | 1477. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, City, London, Patent Agent, for an invention for—"An improved stove or kiln."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                     |
| LISTER.<br>17th June 1853.                     | 1478. ROBERT LISTER, of Scotswood, in the County of Northumberland, Brick-maker, for an invention for—"Improvements in chimney tops or flues."<br><i>Letters Patent sealed.</i>                                                                                                                                                                     |
| BLEASDALE.<br>BLEASDALE.<br>17th June 1853.    | 1479. HENRY BLEASDALE and JOSEPH BLEASDALE, both of Chipping, in the County of Lancaster, for an invention for—"Improvements in working, tilling, or preparing land."<br><i>Letters Patent sealed.</i>                                                                                                                                              |
| HOGG.<br>17th June 1853.                       | 1480. JAMES HOGG, junior, of Nicolson Street, Edinburgh, in the County of Edinburgh, Publisher, for an invention for—"Improvements in the application and combination of glass, porcelain, stoneware, earthenware, terra-cotta, composition in plaster of the kind called scagliola and majolica ware."<br><i>Letters Patent sealed.</i>            |



- PIDDINGTON.  
17th June 1853.
- HALL.  
18th June 1853.
- BESSEMER.  
18th June 1853.
- SAUNDERS.  
18th June 1853.
- HANNINGTON.  
18th June 1853.
- BREFFIT.  
18th June 1853.
- DE BUSSAC.  
18th June 1853.
- ADAMSON.  
ADAMSON.  
18th June 1853.
- HEGINBOTTOM.  
HEGINBOTTOM.  
18th June 1853.
- SHANKS.  
18th June 1853.
- HYDE.  
18th June 1853.
- GILBEE.  
18th June 1853.
- WORRALL.  
18th June 1853.
- RICHARDSON.  
18th June 1853.
- RICHARDSON.  
18th June 1853.
- ROBINSON.  
18th June 1853.
- SCHOFIELD.  
18th June 1853.
- YOUNG.  
18th June 1853.
1481. JOHN PIDDINGTON, of Brussels, in the Kingdom of Belgium, Gentleman, for an invention for—"Improvements in obtaining infusions and decoctions, and in vessels or apparatus employed therein."—*A communication.* *Letters Patent sealed.*
1482. WILLIAM HALL, of Aberdeen, for an invention for—"Improvements in ship-building." *Letters Patent sealed.*
1483. HENRY BESSEMER, of Baxter House, Old Saint Pancras Road, in the County of Middlesex, for an invention for—"Improvements in the manufacture of waterproof or partially waterproof fabrics." *Letters Patent sealed.*
1484. HENRY SAUNDERS, of Yeovane, Staines, for an invention for—"Improvements in drying grass and other crops." *Letters Patent sealed.*
1485. GUY HANNINGTON, of Holland Place, Denmark Street, Cold Harbour Lane, in the County of Surrey, for an invention for—"Improvements in producing railway and other tickets and cards." *Provisional protection only.*
1486. EDGAR BREFFIT, of Castleford, in the County of York, Glass Manufacturer, for an invention for—"Improvements in the manufacture of glasshouse pots." *Letters Patent sealed.*
1487. JACQUES FRANÇOIS DUPONT de BUSSAC, of 36A, Upper Charlotte Street, Fitzroy Square, in the County of Middlesex, Gentleman, for an invention for—"An improved mode of making, with iodine and its compounds in combination with substances containing extractive principles, various elementary combinations."—*A communication.* *Letters Patent sealed.*
1488. THOMAS ADAMSON and WILLIAM ADAMSON, of Sunderland, in the County of Durham, for an invention for—"Improvements in pumps." *Letters Patent sealed.*
1489. JAMES HEGINBOTTOM and JOSEPH HEGINBOTTOM, of Ovenden, in the Parish of Halifax, in the County of York, Cotton-spinners, for an invention for—"Improvements in spinning." *Letters Patent sealed.*
1490. JAMES SHANKS, of Saint Helens, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of alkali from common salt." *Letters Patent sealed.*
1491. JOHN MOORE HYDE, of 1 Quay, in the City of Bristol, Philosophical Instrument Maker, for an invention for—"Improvements in steam-engines, and the production of steam for the same." *Provisional protection only.*
1492. WILLIAM ARMAND GILBEE, of the Office for Patents, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, Patent Agent, for an invention for—"A new mode of ornamenting stuffs and paper."—*A communication.* *Provisional protection only.*
1493. JAMES WORRALL, junior, of Salford, in the County of Lancaster, Dyer and Finisher, for an invention for—"Certain improvements in machinery or apparatus for washing, bleaching, and dyeing fustians, beaverteens, cantons, satteens, twills, and other textile fabrics." *Letters Patent sealed.*
1494. JOHN CROSS RICHARDSON, of Lilly Hill, near Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Certain improvements in machinery or apparatus for winding yarn." *Letters Patent sealed.*
1495. JOHN CROSS RICHARDSON, of Lilly Hill, near Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Certain improvements in looms for weaving." *Letters Patent sealed.*
1496. GEORGE ROBINSON, of the firm of Binyons, Robinson, and Co., of Manchester, in the County of Lancaster, Tea and Coffee Merchant, for an invention for—"Certain improvements in apparatus for roasting or desiccating coffee, cocoa, and chicory." *Letters Patent sealed.*
1497. SAMUEL SCHOFIELD, of Oldham, in the County of Lancaster, Cotton Spinner, for an invention for—"Certain improvements in machinery or apparatus for preparing and spinning cotton and other fibrous materials." *Letters Patent sealed.*
1498. GEORGE YOUNG, of Neath, South Wales, Merchant, for an invention for—"Improvements in grinding wheat and other grain." *Letters Patent sealed.*



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| CRICKMAY.<br>20th June 1853.            | 1499. CHARLES CRICKMAY, of Handsworth, in the County of Stafford, Gun Manufacturer, for an invention for—"Improvements in the construction of fire-arms."<br><i>Letters Patent sealed.</i>                                                                                    |
| PAUL.<br>20th June 1853.                | 1500. JOHN PAUL, Paper Stainer, of the City of Manchester, in the County Palatine of Lancaster, for an invention for—"Colouring paper on the surface."<br><i>Letters Patent sealed.</i>                                                                                       |
| MIDGLEY.<br>20th June 1853.             | 1501. ROBERT MIDGLEY, of Northowram, in the Parish of Halifax, in the County of York, Worsted Spinner, for an invention for—"Improvements in preparing and finishing certain worsted yarns, and in apparatus employed therein."<br><i>Letters Patent sealed.</i>              |
| BARKER.<br>HOLT.<br>20th June 1853.     | 1502. HIRAM BARKER, of Manchester, in the County of Lancaster, Engineer and Tool Maker, and FRANCIS HOLT, of Manchester aforesaid, Engineer, for an invention for—"Improvements in machinery and apparatus for grinding and turning metals."<br><i>Letters Patent sealed.</i> |
| BOGGETT.<br>PETTIT.<br>20th June 1853.  | 1503. WILLIAM BOGGETT, of Saint Martin's Lane, in the County of Middlesex, Gentleman, and GEORGE BROOKS PETTIT, of Lisle Street, in the same County, Gas Engineer, for an invention for—"Improvements in dioptric refractors."<br><i>Letters Patent sealed.</i>               |
| HODGSON.<br>HODGSON.<br>20th June 1853. | 1504. WILLIAM HODGSON and HENRY HODGSON, both of Bradford, in the County of York, Machine Makers, for an invention for—"Improvements in machinery for spinning wool, hair, silk, flax, and other fibrous substances."<br><i>Letters Patent sealed.</i>                        |
| PERKINS.<br>20th June 1853.             | 1505. JOHN WILLIAM PERKINS, of Narrow Street, Limehouse, in the County of Middlesex, Analytical Chemist, for an invention for—"Improvements in the manufacture of artificial manure."<br><i>Letters Patent sealed.</i>                                                        |
| NEWTON.<br>20th June 1853.              | 1506. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for drilling or boring rocks or other hard substances."— <i>A communication. Provisional protection only.</i> |
| NEWTON.<br>20th June 1853.              | 1507. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved manufacture of handles for knives and other similar articles."— <i>A communication. Letters Patent sealed.</i>       |
| DEFEVER.<br>20th June 1853.             | 1508. CHARLES LOUIS DEFEVER, of Steenbrugge lez Bruges, in the Kingdom of Belgium, Merchant, for an invention for—"An improved preparation for lubricating machinery."<br><i>Provisional protection only.</i>                                                                 |
| CORNELIUS.<br>20th June 1853.           | 1509. RICHARD CORNELIUS, of Old Town Street, Plymouth, for an invention for—"Improvements in the construction of churns for producing butter."<br><i>Letters Patent sealed.</i>                                                                                               |
| GALLOWAY.<br>20th June 1853.            | 1510. ROBERT GALLOWAY, of Cartmell, in the County of Lancaster, for an invention for—"Improvements in manufacturing and refining sugar."<br><i>Letters Patent sealed.</i>                                                                                                     |
| MACPHERSON.<br>20th June 1853.          | 1511. ALLAN MACPHERSON, of Brussels, in the Kingdom of Belgium, Merchant, for an invention for—"Improvements in disinfecting sewers or other drains, and in converting the contents thereof to useful purposes."<br><i>Provisional protection only.</i>                       |
| SKERTCHLY.<br>20th June 1853.           | 1512. JOSEPH SKERTCHLY, junior, of Kingsland, Middlesex, and Ansty, in the County of Leicester, Engineer, for an invention for—"Improvements in the application of baths to articles used for resting the human body."<br><i>Letters Patent sealed.</i>                       |
| GRIMAUD.<br>20th June 1853.             | 1513. PACIFIQUE GRIMAUD, of Paris, in the Empire of France, Gentleman, and of 4, South Street, Finsbury, London, for an invention for—"A new æro-gaseous drink, which he calls Grimaudine."<br><i>Letters Patent sealed.</i>                                                  |
| BLATIN.<br>20th June 1853.              | 1514. HENRY BLATIN, of 30, Rue Buonaparte, Paris, France, Gentleman, and 4, South Street, Finsbury, London, for an invention for—"Improvements in buckles."<br><i>Letters Patent sealed.</i>                                                                                  |



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| <p>COWPER.<br/>21st June 1853.</p> <p>NEWTON.<br/>21st June 1853.</p> <p>WILSON.<br/>21st June 1853.</p> <p>DRUMMOND.<br/>21st June 1853.</p> <p>GIRET.<br/>21st June 1853.</p> <p>LEACH.<br/>21st June 1853.</p> <p>NOONE.<br/>22nd June 1853.</p> <p>AYCKBOURN.<br/>22nd June 1853.</p> <p>HUCKVALE.<br/>22nd June 1853.</p> <p>GEEVES.<br/>22nd June 1853.</p> <p>TOPHAM.<br/>22nd June 1853.</p> <p>STOCKS.<br/>WATSON.<br/>23rd June 1853.</p> <p>DU CHASTAINGT.<br/>23rd June 1853.</p> <p>BURROWS.<br/>23rd June 1853.</p> <p>BURROWS.<br/>23rd June 1853.</p> <p>DODDS.<br/>23rd June 1853.</p> | <p>1515. CHARLES COWPER, of 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the manufacture of cards or substitutes for cards for the jacquard-loom."—<i>A communication.</i><br/><i>Letters Patent sealed.</i></p> <p>1516. JOSEPH NEWTON, of Ickwell, in the County of Bedford, Horticulturalist, for an invention for—"Improved apparatus for heating buildings, applicable also to horticultural purposes, and to hatching and rearing poultry and game."<br/><i>Provisional protection only.</i></p> <p>1517. THOMAS WILSON, of the City of Manchester, in the County of Lancaster, Corn Factor and Miller, for an invention for—"Improvements in screens or machinery for cleaning wheat and other grain."<br/><i>Provisional protection only.</i></p> <p>1518. JOHN DRUMMOND, of Edinburgh, Scotland, Mechanic, for an invention for—"A reaping machine."<br/><i>Provisional protection only.</i></p> <p>1519. JUSTE GIRET, of Rue Papillon, Paris, France, Gentleman, and of 4, South Street, Finsbury, London, for an invention for—"Certain improvements in artificial and malleable stones, and in the apparatus to be used for such purposes."<br/><i>Letters Patent sealed.</i></p> <p>1520. JOHN LEACH, of Over Darwen, in the County of Lancaster, Over-looker, for an invention for—"Improvements in looms for weaving."<br/><i>Letters Patent sealed.</i></p> <p>1521. JOHN HENRY NOONE, of No. 53, Salisbury Street, Portman Market, in the County of Middlesex, Journeyman Coach-builder, for an invention for—"An improved method of stopping railway-trains and preventing railway accidents."<br/><i>Letters Patent sealed.</i></p> <p>1522. FREDERICK AYCKBOURN, of 99, Guildford Street, Russell Square, in the County of Middlesex, Patent Folding Boat Manufacturer, for an invention for—"Improvements in the manufacture of waterproof fabrics."<br/><i>Letters Patent sealed.</i></p> <p>1523. FRANCIS HUCKVALE, of Choice Hill, near Chipping Norton, in the County of Oxford, for an invention for—"Improvements in hand hoes."<br/><i>Letters Patent sealed.</i></p> <p>1524. WILLIAM GEEVES, of the Caledonian Mills, New Wharf Road, Caledonian Road, in the County of Middlesex, for an invention for—"Improvements in the manufacture of bricks."<br/><i>Letters Patent sealed; no specification filed.</i></p> <p>1525. CHARLES TOPHAM, of Hoxton, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus for measuring liquids, gases, and other elastic fluids, and for regulating the flow thereof, which apparatus may also be applied to the obtaining of motive power."<br/><i>Letters Patent sealed.</i></p> <p>1526. GEORGE LOUIS STOCKS, of Limehouse Hole, Poplar, in the County of Middlesex, Ship Chandler, and THOMAS WATSON, of No. 49, Buttesland Street, Hoxton, in the same County, Rose Engine Turner, for an invention for—"Improvements in the construction of ship's square sails and in the method of reefing the same."<br/><i>Provisional protection only.</i></p> <p>1527. NOËL NATALIS du CHASTAINGT, of Rue Rochechouart, Paris, France, Chemist, and of 4, South Street, Finsbury, London, for an invention for—"An improvement in bread-making."<br/><i>Letters Patent sealed.</i></p> <p>1528. JAMES BURROWS, of Haigh Foundry, near Wigan, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in the construction of steam-boilers or generators, and in the arrangement of furnaces connected therewith."<br/><i>Provisional protection only.</i></p> <p>1529. JAMES BURROWS, of Haigh Foundry, near Wigan, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in the formation of such metallic plates as are required to be conjoined by rivetting or other similar fastening."<br/><i>Provisional protection only.</i></p> <p>1530. THOMAS WEATHERBURN DODDS, of the Holmes Engine and Railway Works, Rotherham, in the County of York, Engineer, for an invention for—"Improvements in the manufacture of files, rasps, and other edge-tools usually made of steel."<br/><i>Letters Patent sealed.</i></p> |
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| FONTAINE MOREAU.<br>23rd June 1853. | 1531. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office for Inventions, 4 South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"A new distilling apparatus."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                          |
| ASPINALL.<br>23rd June 1853.        | 1532. JOSEPH ASPINALL, of 4, Old Hall Street, Liverpool, and of 16, Castle Street, Holborn (City), London, Broker, for an invention for—"A self-adjusting stamp."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                   |
| COOKE.<br>23rd June 1853.           | 1533. MASTA JOSCELIN COOKE, of the Tyne Manure and Chemical Works, Glasshouse Quay, Newcastle on Tyne, in the Town and County of Newcastle on Tyne, Gentleman, for an invention of—"An improved mill and apparatus for crushing and grinding bones, grain, and other compounds." <i>Provisional protection only.</i>                |
| HORTON.<br>24th June 1853.          | 1534. JOSHUA HORTON, junior, of Brierley Hill, in the County of Stafford, Engineer and Boiler Manufacturer, for an invention for—"An improvement or improvements in steam-boilers." <i>Letters Patent sealed.</i>                                                                                                                   |
| ROCK.<br>24th June 1853.            | 1535. JOSEPH ROCK, junior, of Birmingham, in the County of Warwick, Factor, for an invention for—"An improvement or improvements in spring or clasp knives; applicable to such other articles as shut or close after the manner of clasp knives." <i>Letters Patent sealed.</i>                                                     |
| RICHARDSON.<br>24th June 1853.      | 1536. NOBLE CARR RICHARDSON, of South Shields, in the County of Durham Founder, for an invention for—"An improved capstan." <i>Letters Patent sealed.</i>                                                                                                                                                                           |
| SIDNEY.<br>24th June 1853.          | 1537. GEORGE SANDS SIDNEY, of the Willows, Brixton Road, in the County of Surrey, Gentleman, for an invention for—"Improvements in jugs or vessels for containing liquids." <i>Letters Patent sealed.</i>                                                                                                                           |
| WEBSTER.<br>24th June 1853.         | 1538. JOHN WEBSTER, of Ipswich, for an invention for—"Improvements in the distillation of fatty and oily matters." <i>Provisional protection only.</i>                                                                                                                                                                              |
| LISTER.<br>24th June 1853.          | 1539. SAMUEL CUNLIFFE LISTER, of Bradford, in the County of York, for an invention for—"Improvements in washing wool and hair, also in treating and preparing, before being spun, wool, flax, cotton, and similar fibrous material." <i>Provisional protection NOT granted.</i>                                                     |
| JOHNSON.<br>24th June 1853.         | 1540. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in obtaining motive power."— <i>A communication from Messrs. Guichené and Burgalat.</i><br><i>Provisional protection only.</i>                                      |
| JOHNSON.<br>24th June 1853.         | 1541. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the production or manufacture of flour."— <i>A communication from Mons<sup>r</sup>. Buizoz.</i><br><i>Letters Patent sealed.</i>                                 |
| JOHNSON.<br>24th June 1853.         | 1542. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for cutting paper and similar materials."— <i>A communication from Mons<sup>r</sup>. Pfeiffer.</i><br><i>Provisional protection only.</i> |
| McCONNELL.<br>24th June 1853.       | 1543. JAMES McCONNELL, of Hazeldean, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in the consumption or prevention of smoke." <i>Provisional protection only.</i>                                                                                                                          |
| LYLE.<br>24th June 1853.            | 1544. JOHN LYLE, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in the manufacture of figured or ornamental fabrics." <i>Letters Patent sealed.</i>                                                                                                                           |
| GOODALL.<br>24th June 1853.         | 1545. HENRY GOODALL, of Derby, Druggist, for an invention for "Improved machinery or apparatus for grinding or levigating various substances." <i>Letters Patent sealed.</i>                                                                                                                                                        |
| VALLS.<br>24th June 1853.           | 1546. LEON VALLS, of Paris, in the Empire of France, Merchant, for an invention for—"Improvements in the production of printing surfaces."— <i>A communication.</i><br><i>Letters Patent sealed; no specification filed.</i>                                                                                                        |



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25th June 1853.
- ANDRAUD.  
25th June 1853.
- LIGHTFOOT.  
25th June 1853.
- MACKELCAN.  
25th June 1853.
- SANDOZ.  
25th June 1853.
- HARLOW.  
27th June 1853.
- BROOMAN.  
27th June 1853.
- FAIRCLOUGH.  
27th June 1853.
- MASON.  
RYDER.  
27th June 1853.
- NEWTON.  
27th June 1853.
- FRENCH.  
27th June 1853.
- JARMAN.  
28th June 1853.
- MINASI.  
28th June 1853.
- BROWN.  
28th June 1853.
- BELLFORD.  
28th June 1853.
- BELLFORD.  
28th June 1853.
- JOHNSON.  
28th June 1853.
1547. DANIEL ILLINGWORTH, ALFRED ILLINGWORTH, and HENRY ILLINGWORTH, of Bradford, in the County of York, Worsted Spinners, for an invention for—"Improvements in machinery or apparatus for combing wool, cotton, flax, silk, and other fibrous substances."  
*Letters Patent sealed.*
1548. ANTOINE ANDRAUD, of Paris, in the Empire of France, and of 16, Castle Street, Holborn, London, Civil Engineer, for an invention for—"Certain improvements in railways, and locomotives running thereon; which improvements facilitate the ascension of steep inclines."  
*Complete specification; Letters Patent sealed.*
1549. JOHN EMANUEL LIGHTFOOT, of Accrington, for an invention for—"An improvement in the manufacture of certain colouring matter to be used in dyeing and printing."  
*Letters Patent sealed.*
1550. GEORGE JOSIAH MACKELCAN, of Lechlade, Gloucester, Agricultural Implement Maker, for an invention for—"Improvements in winnowing or corn-dressing machines."  
*Provisional protection only.*
1551. ALFRED SANDOZ, of the firm of Sandoz Brothers, of Pontz, Switzerland, for an invention for—"An instrument or apparatus, which he terms 'A solar-watch.'"  
—*A communication from the inventor, Philipe Henri Matthey Doret, of Locle, Switzerland.*  
*Letters Patent sealed.*
1552. ROBERT HARLOW, of Stockport, in the County of Lancaster, Brass-founder, for an invention for—"Improvements in constructing and working valves for baths, washstands, and other purposes."  
*Letters Patent sealed.*
1553. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in printing or in producing designs and patterns on stuffs and fabrics."—*A communication.*  
*Letters Patent sealed.*
1554. WILLIAM FAIRCLOUGH, of Stockport, in the County of Lancaster, Machine Smith, for an invention for—"Certain improvements in looms for weaving."  
*Letters Patent sealed.*
1555. JOHN MASON, of Rochdale, in the County of Lancaster, Machinist, and LUKE RYDER, of the same place, Mechanic, for an invention for—"Improvements in machinery or apparatus for preparing and spinning cotton and other fibrous substances."  
*Letters Patent sealed.*
1556. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved apparatus for manufacturing rosin oil."—*A communication. Provisional protection only.*
1557. GEORGE FRENCH, of Bandon, in the Kingdom of Ireland, for an invention for—"Improvements in axles or axle-trees."  
*Letters Patent sealed; no specification filed.*
1558. JOHN JARMAN, of the City of Manchester, in the County of Lancaster, Commercial Traveller, for an invention for—"Improvements in apparatus for measuring corn, pulse, seeds, or other produce usually sold by dry measure."  
*Provisional protection only.*
1559. CARLO MINASI, of Camden Town, in the County of Middlesex, Professor of Music, for an invention for—"Improvements in concertinas."  
*Letters Patent sealed.*
1560. ALEXANDER BROWN, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in the manufacture of cotton fabrics for ladies' under dresses."  
*Provisional protection only.*
1561. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, (City), London, Patent Agent, for an invention for—"Improvements in steam-boilers."—*A communication.*  
*Letters Patent sealed.*
1562. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn (City), London, Patent Agent, for an invention for—"Improvements in magneto-electric machines."—*A communication.*  
*Letters Patent sealed.*
1563. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in turning over the leaves of books, music, and engravings, and in the apparatus for effecting the same."—*A communication from Claude Desbeaux, of Paris, in the Empire of France.*  
*Letters Patent sealed.*



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| IRONS.<br>29th June 1853.                 | 1564. THOMAS EDWARD IRONS, of Market Gate, in Arbroath, North Britain, Last Maker, for an invention for—"Improvements in the manufacture of lasts, and in machinery connected therewith, parts of which machinery are also applicable to other like purposes of eccentric turning."<br><i>Letters Patent sealed.</i> |
| STEINER.<br>29th June 1853.               | 1565. FREDERICK STEINER, of Hyndburn, near Accrington, in the County of Lancaster, Turkey-red Dyer, for an invention for—"Improvements in the manufacture of wooden rollers or cylinders."<br><i>Provisional protection only.</i>                                                                                    |
| FONTAINE MOREAU.<br>29th June 1853.       | 1566. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office for Inventions, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"Improvements in the construction of furnaces."— <i>A communication.</i><br><i>Letters Patent sealed.</i>        |
| PATTERSON.<br>29th June 1853.             | 1567. JOHN PATTERSON, of Beverley, in the County of York, Engineer, for an invention for—"Improvements in machines for reaping and mowing corn, grass, and other crops."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                    |
| SIEVIER.<br>29th June 1853.               | 1568. ROBERT MOORE SIEVIER, of Louviers, in the Empire of France, but now residing at Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in the manufacture of piled fabrics, and in machinery for effecting the same."<br><i>Letters Patent sealed.</i>                       |
| IMRAY.<br>29th June 1853.                 | 1569. JOHN IMRAY, of Bridge Road, Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in obtaining motive-power."<br><i>Letters Patent sealed.</i>                                                                                                                                        |
| BIDDELL.<br>29th June 1853.               | 1570. GEORGE ARTHUR BIDDELL, of Ipswich, Engineer, for an invention for—"Improvements in apparatus for cutting vegetable and other substances."<br><i>Letters Patent sealed.</i>                                                                                                                                     |
| SICARD.<br>29th June 1853.                | 1571. PIERRE AMABLE DE SAINT SIMON SICARD, of Paris, in the French Empire, Chemist, for an invention for—"Improvements in apparatus for facilitating the raising, moving, and breaking up of sunken vessels and other submerged substances."<br><i>Provisional protection only.</i>                                  |
| TATLOW.<br>HODGKINSON.<br>29th June 1853. | 1572. JAMES TATLOW, of the firm of J. and W. Tatlow, of Wirksworth, in the County of Derby, Small Ware Manufacturer, and HENRY HODGKINSON, of the same place, Mechanic, for an invention for—"Improvements in small ware looms."<br><i>Letters Patent sealed.</i>                                                    |
| WRIGHT.<br>29th June 1853.                | 1573. LEMUEL WELLMAN WRIGHT, of Chalford, in the County of Gloucester, Engineer, for an invention for—"Improvements in the permanent way of railways."<br><i>Provisional protection only.</i>                                                                                                                        |
| HANDCOCK.<br>30th June 1853.              | 1574. ELIAS ROBISON HANDCOCK, of 58, Pall Mall, in the City of Westminster, for an invention for—"Certain improvements in mechanism to decrease friction in propelling machinery and to compensate for the wear thereof, and to strengthen the driving parts."<br><i>Letters Patent sealed.</i>                      |
| BELLFORD.<br>30th June 1853.              | 1575. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, London, Patent Agent, for an invention for—"Improvements in the construction of submarine or subaqueous tunnels or ways."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                          |
| RICE.<br>30th June 1853.                  | 1576. WILLIAMS RICE, of Boston, in the County of Lincoln, Miller and Corn Merchant, for an invention for—"Improvements in harness for horses and other animals, and in the manufacture of springs for the same."<br><i>Letters Patent sealed.</i>                                                                    |
| WEBB.<br>30th June 1853.                  | 1577. JOSEPH WEBB, of Mayfield Terrace, Dalston, in the County of Middlesex, for an invention for—"Improvements in obtaining and applying motive-power."<br><i>Provisional protection only.</i>                                                                                                                      |
| STERRY.<br>30th June 1853.                | 1578. GEORGE STERRY, of Worcester, in the County of Worcester, Carver and Gilder, for an invention for—"An improved method of producing designs and patterns in wood."<br><i>Provisional protection only.</i>                                                                                                        |
| HOW.<br>30th June 1853.                   | 1579. ANDREW PEDDIE HOW, of Mark Lane, in the City of London, Engineer, for an invention for—"An engine meter, or instrument for indicating the number of strokes of an engine."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                     |



DAVIES.  
30th June 1853.

1580. EDWARD DAVIES, of Gothenburg, in the Kingdom of Sweden, Manufacturer, for an invention for—"Improvements in machinery or apparatus for carding and otherwise preparing cotton or other fibrous materials to be spun, and also for cleaning or stripping cards used in the said operations." *Letters Patent sealed.*

SPOONER.  
30th June 1853.

1581. WILLIAM CHARLES SPOONER, of Eling House, near Southampton, in the County of Hants, Manufacturer of Chymical Manures, for an invention for—"Improvements in drills for agricultural purposes." *Letters Patent sealed.*

TASKER.  
30th June 1853.

1582. WILLIAM TASKER, of the firm of Tasker and Fowle, of the Waterloo Iron Works, near Andover, in the County of Hants, for an invention for—"Improvements in drills for agricultural purposes." *Letters Patent sealed.*

BRADLEY.  
CRAVEN.  
1st July 1853.

1583. RICHARD BRADLEY and WILLIAM CRAVEN, of Westgate Common Foundry, in Wakefield, in the County of York, Engineers and Iron-founders, for an invention for—"Improvements in the moulding, forming, and compressing of clay for the manufacture of bricks, tiles, and other earthenware." *Letters Patent sealed.*

HART.  
1st July 1853.

1584. PHILIP HART, of Brierly Hill, in the County of Stafford, Agent, for an invention for—"Improvements in the manufacture of coke." *Letters Patent sealed.*

GETTY.  
1st July 1853.

1585. JOHN GETTY, of Liverpool, in the County of Lancaster, Merchant, for an invention for—"Certain improvements in ship-building." *Letters Patent sealed.*

PARSONS.  
1st July 1853.

1586. GEORGE PARSONS, of West Lambrook, in the County of Somerset, Agricultural Implement Maker, for an invention for—"Improved machinery for thrashing, winnowing, and dressing corn, grain, and seeds." *Provisional protection only.*

SHEPARD.  
1st July 1853.

1587. EDWARD CLARENCE SHEPARD, of Trafalgar Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in magneto-electric apparatus suitable for the production of motive-power, of heat, and of light."—*A communication.* *Letters Patent sealed.*

ROLLINSON.  
ROLLINSON.  
2nd July 1853.

1588. JOHN ROLLINSON, of Kingswinford, in the County of Stafford, Engineer, and WILLIAM ROLLINSON, of Brierley Hill, in the County of Stafford, Engineer, for an invention for—"A new or improved apparatus for preventing explosions in steam-boilers." *Letters Patent sealed.*

JAQUES.  
2nd July 1853.

1589. JOHN JAQUES, the younger, of Hatton Garden, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in the manufacture of chess-boards and chess-men." *Complete specification; Letters Patent sealed.*

WRIGHT.  
2nd July 1853.

1590. LEMUEL WELLMAN WRIGHT, of Chalford, in the County of Gloucester, Engineer, for an invention for—"Improvements in machinery or apparatuses for reducing and pulverizing gold and other metalliferous quartz and earths, and in separating metal therefrom." *Letters Patent sealed.*

SHEPARD.  
2nd July 1853.

1591. EDWARD CLARENCE SHEPARD, of Trafalgar Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of gas."—*A communication.* *Letters Patent sealed.*

BROOMAN.  
2nd July 1853.

1592. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Certain machinery for converting caoutchouc into circular blocks or cylinders, and for manufacturing the same into sheets."—*A communication from François Perroncel, of Paris.* *Letters Patent sealed.*

BROOMAN.  
2nd July 1853.

1593. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in impregnating, saturating, or coating threads, yarns, and fabrics with metal, which process the inventor terms 'Metallic dyeing.'"—*A communication from Charles Depouilly, of Paris.* *Letters Patent sealed.*

DE BERGUE.  
4th July 1853.

1594. CHARLES de BERGUE, of Dowgate Hill, in the City of London, Engineer, for an invention for—"Improvements in the manufacture of railway wheels." *Provisional protection only.*

FÈVRE.  
4th July 1853.

1595. GABRIEL DIDIER FÈVRE, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"An improved vessel to be used for the purposes of infusion and decoction, heating liquids, and melting glutinous substances." *Provisional protection only.*



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| AMEZAGA.<br>4th July 1853.         | 1596. FRANÇOIS MATHIEU de AMEZAGA, of Bordeaux, in the Empire of France, Captain in the Sardinian Navy, for an invention for—"A method of obtaining motive-power, and certain machinery or apparatus employed therein."<br><i>Letters Patent sealed.</i>                                         |
| PARRATT.<br>4th July 1853.         | 1597. GEORGE FREDERICK PARRATT, of Piccadilly, in the County of Middlesex, for an invention for—"Improvements in portable bridges, rafts, or pontoons."<br><i>Provisional protection only.</i>                                                                                                   |
| MEYER.<br>5th July 1853.           | 1598. HENRY MEYER, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in looms for weaving."<br><i>Letters Patent sealed; specification filed by order.</i>                                                                                         |
| DAVIS.<br>5th July 1853.           | 1599. MARCUS DAVIS, of 52, Gray's Inn Lane, in the County of Middlesex, Silent Carriage Maker, for an invention for—"Improvements in carriages, scaffoldings, and ladders, which scaffoldings and ladders are used as carriages."<br><i>Letters Patent sealed.</i>                               |
| TRIPE.<br>5th July 1853.           | 1600. DECIMUS JULIUS TRIPE, of the Commercial Road East, in the County of Middlesex, Student in Medicine, for an invention for—"Improvements in locks."<br><i>Letters Patent sealed.</i>                                                                                                         |
| FALL.<br>5th July 1853.            | 1601. JOHN FALL, of Chorlton-upon-Medlock, in the City of Manchester, Gentleman, for an invention for—"Improvements in the treatment of certain oils."<br><i>Letters Patent sealed.</i>                                                                                                          |
| POLLARD.<br>5th July 1853.         | 1602. NATHAN POLLARD, Overlooker of Bowling, near Bradford, in the County of York, for an invention for—"An improvement in machinery for drawing wool and other staple."<br><i>Letters Patent sealed; specification filed by order.</i>                                                          |
| NEWTON.<br>5th July 1853.          | 1603. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for printing."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                 |
| MACKAY.<br>5th July 1853.          | 1604. GEORGE MACKAY, of Buckingham Street, Strand, Gentleman, for an invention for—"Improvements in the manufacture of glass."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                         |
| POOLE.<br>5th July 1853.           | 1605. MOSES POOLE, of Avenue Road, Regent's Park, in the County of Middlesex, for an invention for—"An improved quartz crushing, pulverizing, and amalgamating machine."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                         |
| BIDDELL.<br>5th July 1853.         | 1606. GEORGE ARTHUR BIDDELL, of Ipswich, Engineer, for an invention for—"Improvements in apparatus for crushing grain, seeds, or pulse."<br><i>Provisional protection only.</i>                                                                                                                  |
| NEWBY.<br>6th July 1853.           | 1607. THOMAS NEWBY, of Garbett Street, Birmingham, Steel-pen Tool Maker, for an invention for—"Improvements in fastenings for wearing apparel."<br><i>Letters Patent sealed.</i>                                                                                                                 |
| ERARD.<br>6th July 1853.           | 1608. PETER ERARD, of Marseilles, in the Empire of France, and 4, South Street, Finsbury, London, Civil Engineer, for an invention for—"Certain improvements in steam-boilers."<br><i>Letters Patent sealed.</i>                                                                                 |
| FONTAINE-MOREAU.<br>6th July 1853. | 1609. PETER ARMAND LE COMTE DE FONTAINE-MOREAU, of the British and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"Improvements in typographical printing-presses."— <i>A communication.</i><br><i>Letters Patent sealed.</i> |
| HOOD.<br>HOOD.<br>6th July 1853.   | 1610. JOHN HOOD, of Glasgow, in the County of Lanark, North Britain, and WILLIAM HOOD, of the same place, Manufacturers, for an invention for—"Improvements in the treatment or manufacture of ornamental fabrics."<br><i>Letters Patent sealed.</i>                                             |
| COOK.<br>6th July 1853.            | 1611. WILLIAM WOODS COOK, of Bolton, in the County of Lancaster, Muslin Manufacturer, for an invention for—"Improvements in the manufacture of woven or textile fabrics."<br><i>Letters Patent sealed.</i>                                                                                       |
| GASKELL.<br>6th July 1853.         | 1612. PETER GASKELL, of Manchester, in the County of Lancaster, Manager, for an invention for—"Improvements in elastic springs."<br><i>Provisional protection only.</i>                                                                                                                          |
| KENNARD.<br>6th July 1853.         | 1613. THOMAS WILLIAM KENNARD, of Duke Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in iron bridges."<br><i>Letters Patent sealed.</i>                                                                                                         |



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| BRADSHAW.<br>DAWSON.<br>6th July 1853.         | 1614. JAMES BRADSHAW and THOMAS DAWSON, of Blackburn, in the County of Lancaster, for an invention for—"An improved shuttle-skewer."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                           |
| RUST.<br>6th July 1853.                        | 1615. ROBERT ANDERSON RUST, of Regent Street, in the County of Middlesex, Pianoforte Manufacturer, for an invention for—"An improvement in pianofortes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                       |
| WOODWARD.<br>6th July 1853.                    | 1616. JOHN WOODWARD, of Platt Street, in the County of Middlesex, Office Clerk, for an invention for—"An apparatus for curling hair."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                          |
| NEWTON.<br>6th July 1853.                      | 1617. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in locks and latches."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                      |
| BATE.<br>7th July 1853.                        | 1618. HENRY BATE, of No. 3, New Hampstead Road, Kentish Town, Surgeon, for an invention for—"A new fire-escape, which he denominates 'The Ignevador.'"<br><i>Letters Patent sealed.</i>                                                                                                                                                                                         |
| CHEETHAM.<br>7th July 1853.                    | 1619. JAMES CHEETHAM the younger, of the City of Manchester, Cotton-spinner, for an invention for—"Improvements in machinery for cutting fustians, velvets, and other similar fabrics."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                                         |
| BELLFORD.<br>7th July 1853.                    | 1620. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, City, London, Patent Agent, for an invention for—"Improvements in logs for indicating the speed of ships and other vessels."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                            |
| CROLL.<br>7th July 1853.                       | 1621. ALEXANDER ANGUS CROLL, of Howrah House, East India Road, one of the Sheriffs of London and Middlesex, for an invention for—"Improvements in apparatus used in the manufacture of gas."<br><i>Letters Patent sealed.</i>                                                                                                                                                   |
| VAUX.<br>7th July 1853.                        | 1622. CHRISTOPHER VAUX, of Brixton, in the County of Surrey, for an invention for—"Improvements in floating breakwaters."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                |
| STUART.<br>7th July 1853.                      | 1623. JOHN KNOX STUART, of Glasgow, in the County of Lanark, North Britain, Surgeon, for an invention for—"Improvements in hats and other coverings for the head."<br><i>Letters Patent sealed.</i>                                                                                                                                                                             |
| DANGERFIELD.<br>DANGERFIELD.<br>8th July 1853. | 1624. BENJAMIN DANGERFIELD, of West Bromwich, in the County of Stafford, Engineer, and BENJAMIN DANGERFIELD, junior, of West Bromwich aforesaid, Engineer, for an invention for—"Improvements in constructing and fixing the rails of railways."<br><i>Provisional protection only.</i>                                                                                         |
| CORNIDES.<br>8th July 1853.                    | 1625. LOUIS CORNIDES, of 4, Trafalgar Square, in the County of Middlesex, for an invention for—"Improvements in treating certain ores and minerals, for the purpose of obtaining products therefrom."<br><i>Letters Patent sealed.</i>                                                                                                                                          |
| MARSDEN.<br>ROSCOW.<br>8th July 1853.          | 1626. WILLIAM MARSDEN, junior, of Longridge, in the County of Lancaster, Manufacturer, and SAMUEL ROSCOW, of the same place, Mechanic, for an invention for—"Certain improvements in looms for weaving."<br><i>Provisional protection only.</i>                                                                                                                                 |
| MADDICK.<br>8th July 1853.                     | 1627. WILLIAM MADDICK, of the City of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"An improved mode of heating madder and munjeet, by which the quality of the colouring matter contained in those substances is greatly improved, and its application to dyeing and printing much facilitated."<br><i>Provisional protection only.</i> |
| ROBERTSON.<br>8th July 1853.                   | 1628. WILLIAM ROBERTSON, of Rochdale, in the County of Lancaster, Machine Maker, for an invention for—"Improvements in machinery or apparatus for preparing, spinning, and doubling cotton-wool and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                                                                 |
| BRETT.<br>8th July 1853.                       | 1629. JACOB BRETT, of Hanover Square, in the County of Middlesex, for an invention for—"Improvements in photography."— <i>A communication.</i><br><i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                                         |
| BRUNIER.<br>8th July 1853.                     | 1630. LOUIS BRUNIER, of 21, Norfolk Street, Strand, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in obtaining power by compressed air."<br><i>Letters Patent sealed.</i>                                                                                                                                                                      |



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| SAXBY.<br>8th July 1853.                       | 1631. STEPHEN MARTIN SAXBY, of Brussels, for an invention for—"Improvements in apparatus for lowering ships' boats, and for holding and letting go tackle."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                |
| POOLE.<br>8th July 1853.                       | 1632. MOSES POOLE, of the Avenue Road, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in the manufacture of printing rollers."<br>— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                 |
| ST. CHARLES.<br>8th July 1853.                 | 1633. PHILIPPE POIRIER de ST. CHARLES, of Fulham, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus for measuring and indicating the distance travelled by cabs and other vehicles."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                   |
| PARKES.<br>PARKES.<br>9th July 1853.           | 1634. JAMES PARKES, of Birmingham, in the County of Warwick, and SAMUEL HICKLING PARKES, of Birmingham aforesaid, Manufacturers and Co-partners, for an invention for—"Improvements in the manufacture of certain drawing or mathematical instruments, also in packing or fitting the same in their cases; which said improvements in packing or fitting are also applicable to the packing or fitting of other articles."<br><i>Letters Patent sealed.</i> |
| RESELL.<br>9th July 1853.                      | 1635. THOMAS RESELL, of the Strand, in the City of Westminster, Chronometer Maker, for an invention for—"Improvements in walking-stick umbrellas, applicable also to parasols."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                            |
| RIEPE.<br>9th July 1853.                       | 1636. EWALD RIEPE, of Finsbury Square, in the County of Middlesex, Chemist, for an invention for—"Improvements in the manufacture of turret or clock-tower and such like bells."<br>— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                                              |
| RIEPE.<br>9th July 1853.                       | 1637. EWALD RIEPE, of Finsbury Square, in the County of Middlesex, Chemist, for an invention for—"Improvements in moulds for steel castings."<br>— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                 |
| PEPPIN.<br>9th July 1853.                      | 1638. HENRY HOSKYN PEPPIN, of New Bond Street, in the County of Middlesex, Umbrella and Parasol Manufacturer, for an invention for—"An improved joint for umbrella and parasol sticks."<br>— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                                       |
| BOULÉ.<br>CAILLAND.<br>9th July 1853.          | 1639. JEAN THEODORE BOULÉ, of Paris, and FRANÇOIS CAILLAND, also of Paris, No. 5, Rue Cocq Héron, for an invention for—"Improvements in composing and distributing type."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                            |
| MEYER.<br>9th July 1853.                       | 1640. FREDERICK MEYER, of Paradise Street, Lambeth, for an invention for—"Improvements in the manufacture of candles and night-lights."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                              |
| TOURNIERE.<br>DE MECKENHEIM.<br>9th July 1853. | 1641. PIERRE AUGUSTE TOURNIERE, of Lawrie Terrace, Saint George's Road, in the County of Surrey, Gentleman, and LOUIS NICOLAS DE MECKENHEIM, of Birmingham, in the County of Warwick, Gentleman, for an invention for—"Improvements in the manufacture of soap and washing-paste, and of the materials used therein."<br><i>Letters Patent sealed.</i>                                                                                                      |
| SPROTT.<br>DENHOLM.<br>9th July 1853.          | 1642. MARK SPROTT, junior, of Garnkirk, in the County of Lanark, North Britain, Gentleman, and ROBERT DENHOLM, of the same place, Engineer, for an invention for—"Improvements in the manufacture of pipes or hollow articles from plastic materials."<br><i>Provisional protection only.</i>                                                                                                                                                               |
| RENSHAW.<br>9th July 1853.                     | 1643. GEORGE PEARSON RENSHAW, of Nottingham, in the County of Nottingham, Civil Engineer, for an invention for—"Improvements in cutting and shaping."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                |
| SKINNER.<br>9th July 1853.                     | 1644. WILLIAM SKINNER, junior, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in windows, shutters, and apparatus connected therewith."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                            |
| AGER.<br>11th July 1853.                       | 1645. GEORGE AGER, of Witham, in the County of Essex, Gentleman, for an invention for—"An apparatus for holding and turning over the leaves of music or music-books."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                      |
| FAIRBAIRN.<br>11th July 1853.                  | 1646. PETER FAIRBAIRN, of Leeds, in the County of York, Machinist, for an invention for "Improved machinery for heckling flax, hemp, China grass, and other fibrous materials."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                            |
| CORMACK.<br>11th July 1853.                    | 1647. WILLIAM CORMACK, of No. 2, Princes Street, Finsbury, in the County of Middlesex, Chemist, for an invention for—"Improvements in the manufacture of alkali and chlorine."<br><i>Provisional protection NOT granted.</i>                                                                                                                                                                                                                                |



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| WREDE.<br>11th July 1853.                          | 1848. FABIAN WREDE, of Stockholm, in the Kingdom of Sweden, for an invention for—"Improvements in gas and air engines." <i>Letters Patent sealed.</i>                                                                                                                                                                                                           |
| HOPWOOD.<br>11th July 1853.                        | 1849. HENRY BROUGHAM HOPWOOD, of 184, St. George St. East, Wellclose Square, in the County of Middlesex, for an invention for—"Improvements in ships' ports or scuttles." <i>Letters Patent sealed.</i>                                                                                                                                                         |
| DALTON.<br>11th July 1853.                         | 1850. GEORGE DALTON, of Lymington, in the County of Southampton, Gentleman, for an invention for—"Improvements in reverberatory and other furnaces." <i>Letters Patent sealed.</i>                                                                                                                                                                              |
| BAUWENS.<br>11th July 1853.                        | 1851. FELIX LIEVEN BAUWENS, of Pimlico, in the County of Middlesex, Manufacturer, for an invention for—"Improvements in the manufacture of candles." <i>Letters Patent sealed.</i>                                                                                                                                                                              |
| FINNEMORE.<br>12th July 1853.                      | 1852. JOSEPH BACON FINNEMORE, of Easy Row, Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in sofa springs; useful for spring-stuffed upholstery work generally, and in the adaptation thereof to mattresses." <i>Letters Patent sealed.</i>                                                                             |
| LEVESLEY.<br>12th July 1853.                       | 1853. WILLIAM LEVESLEY, of Sheffield, in the County of York, for an invention for—"An improved method of making table-knife blades." <i>Letters Patent sealed.</i>                                                                                                                                                                                              |
| COWAN.<br>12th July 1853.                          | 1854. PATRICK COWAN, of Skinner Street, in the County of Middlesex, Lamp Manufacturer, for an invention for—"Improvements in gas-fittings." <i>Provisional protection only.</i>                                                                                                                                                                                 |
| JOHNSON.<br>12th July 1853.                        | 1855. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the preparation of glycerine and its applications."— <i>A communication from Victor Courbalay, of Paris, in the Empire of France, Chemical Engineer.</i> <i>Provisional protection only.</i> |
| BURNS.<br>12th July 1853.                          | 1856. ANDREW BURNS, of Glasgow, in the County of Lanark, North Britain Iron Ship Builder, for an invention for—"Improvements in constructing iron ships, boats, boilers, and other metallic structures." <i>Letters Patent sealed.</i>                                                                                                                          |
| SAMUELSON.<br>12th July 1853.                      | 1857. MARTIN SAMUELSON, of Hull, in the County of York, Engineer, for an invention for—"Improvements in the manufacture of bricks and other articles from plastic materials." <i>Letters Patent sealed.</i>                                                                                                                                                     |
| FLETCHER.<br>12th July 1853.                       | 1858. JAMES FLETCHER, of Facit, near Rochdale, in the County of Lancaster, Manager, for an invention for—"Certain improvements in machinery used for spinning, doubling, and winding cotton-wool, flax, silk, and other fibrous materials." <i>Letters Patent sealed.</i>                                                                                       |
| SNOWDEN.<br>12th July 1853.                        | 1859. WILLIAM FRANCIS SNOWDEN, of Weymouth, in the County of Dorset, Mechanist, for an invention for—"An improved mangle." <i>Letters Patent sealed.</i>                                                                                                                                                                                                        |
| ARDASEER.<br>12th July 1853.                       | 1860. NESSERWANJEE ARDASEER, of Bombay, in the Honourable East India Company's service, for an invention for—"A method of driving shafting so as to obtain two revolutions of a screw or other shaft to one revolution of a driving-shaft, or to obtain the converse result." <i>Provisional protection only.</i>                                               |
| GROVER.<br>13th July 1853.                         | 1861. HENRY MONTAGUE GROVER, of Hitcham Rectory, in the County of Buckingham, Clerk, for an invention for—"A new method of finding and indicating the measurements of the sines and cosines of the arcs of circles or other peripheries." <i>Letters Patent sealed.</i>                                                                                         |
| CRAIG.<br>FOSTER.<br>VALENTINE.<br>13th July 1853. | 1862. ABRAHAM WALKER CRAIG, DANIEL FOSTER, and THOMAS VALENTINE, of Belfast, in the County of Antrim, Ireland, Flax Spinners, for an invention for—"Improvements in preparing for weaving wet-spun yarns of flax and tow." <i>Complete specification; Letters Patent sealed.</i>                                                                                |
| BAKEWELL.<br>13th July 1853.                       | 1863. THOMAS HILL BAKEWELL, of Dishley, Leicestershire, for an invention for—"Improvements in ventilating mines." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                 |
| WILLIAMS.<br>13th July 1853.                       | 1864. WILLIAM WILLIAMS, of 82, Fetter Lane, in the City of London, Patentee of Electric Telegraphs, for an invention for—"Improvements in electric telegraphic instruments." <i>Provisional protection only.</i>                                                                                                                                                |



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| GORDON.<br>15th July 1853.            | 1682. ROBERT GORDON, of Heaton Norris, in the County of Lancaster, Millwright and Engineer, for an invention for—"Improvements in furnaces used with steam-boilers, for the purpose of consuming smoke and economizing fuel."<br><i>Letters Patent sealed.</i>                                             |
| D'HUART.<br>15th July 1853.           | 1683. HENRI JOSEPH D'HUART, of Longwy, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"Certain improvements in the manufacture of pottery."<br><i>Letters Patent sealed.</i>                                                                              |
| O'MALLEY.<br>15th July 1853.          | 1684. PATRICK O'MALLEY, of the City of Dublin, Brewer, for an invention for—"A new liquid beverage." <i>Complete specification; protection for SIX months only.</i>                                                                                                                                        |
| LIDDELL.<br>15th July 1853.           | 1685. CHARLES LIDDELL, of Abingdon Street, in the City of Westminster, Esquire, for an invention for—"Improvements in moving boats on canals and rivers."<br><i>Letters Patent sealed.</i>                                                                                                                 |
| NATHAN.<br>ELSNER.<br>15th July 1853. | 1686. HENRY NATHAN, of Birmingham, in the County of Warwick, Jeweller, and SOLOMON ELSNER, of the City of Exeter, Optician, for an invention for—"An improvement in spectacle and reading glasses and pebbles."<br><i>Provisional protection only.</i>                                                     |
| BESSEMER.<br>15th July 1853.          | 1687. HENRY BESSEMER, of Baxter House, Old St. Pancras Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in the process of refining and manufacturing sugar."<br><i>Letters Patent sealed.</i>                                                                                |
| GOODYEAR.<br>15th July 1853.          | 1688. CHARLES GOODYEAR, of Avenue Road, St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in spreading or applying india-rubber or compositions of india-rubber on fabrics."<br><i>Letters Patent sealed.</i>                                                                |
| BESSEMER.<br>15th July 1853.          | 1689. HENRY BESSEMER, of Baxter House, Old St. Pancras Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture and treatment of bastard sugar and other low saccharine products, such as are obtained from molasses and scums."<br><i>Letters Patent sealed.</i> |
| GOODYEAR.<br>15th July 1853.          | 1690. CHARLES GOODYEAR, of Avenue Road, St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in the manufacture of brushes and substitutes for bristles."<br><i>Letters Patent sealed.</i>                                                                                      |
| BESSEMER.<br>15th July 1853.          | 1691. HENRY BESSEMER, of Baxter House, Old St. Pancras Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture and refining of sugar."<br><i>Letters Patent sealed.</i>                                                                                          |
| TAYLOR.<br>15th July 1853.            | 1692. ISAAC TAYLOR, of Stanford Rivers, in the County of Essex, Gentleman, for an invention for—"Improvements in machinery for printing." <i>Letters Patent sealed.</i>                                                                                                                                    |
| GOODYEAR.<br>15th July 1853.          | 1693. CHARLES GOODYEAR, of Avenue Road, St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in the manufacture of pens, pencils, and instruments used when writing, marking, and drawing." <i>Letters Patent sealed.</i>                                                       |
| GOODYEAR.<br>15th July 1853.          | 1694. CHARLES GOODYEAR, of Avenue Road, St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in preparing india-rubber."<br><i>Letters Patent sealed.</i>                                                                                                                       |
| GOODYEAR.<br>15th July 1853.          | 1695. CHARLES GOODYEAR, of Avenue Road, St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in the manufacture of beds, seats, and other hollow flexible articles to contain air."<br><i>Letters Patent sealed.</i>                                                            |
| JELIE.<br>15th July 1853.             | 1696. JEAN BAPTISTE JELIE, of Alost, in the Kingdom of Belgium, Thread Manufacturer, for an invention for—"Improved machinery for dressing or polishing thread."<br><i>Letters Patent sealed.</i>                                                                                                          |
| NEWTON.<br>15th July 1853.            | 1697. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery or apparatus for digging, excavating, and removing earth."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                |
| FAYERMAN.<br>16th July 1853.          | 1698. EDMUND REYNOLDS FAYERMAN, of Shaftesbury Crescent, in the County of Middlesex, Gentleman, for an invention for—"A method of and instrument for keeping time in music."<br><i>Letters Patent sealed.</i>                                                                                              |
| LAMPLOUGH.<br>16th July 1853.         | 1699. HENRY LAMPLOUGH, of Gray's Inn Lane, for an invention for—"Improvements in the preparation and manufacture of certain effervescing beverages."<br><i>Letters Patent sealed.</i>                                                                                                                      |



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| RIVES.<br>16th July 1853.               | 1700. JACQUES RIVES, of 8, Hotel Motay, Rue Motay, Paris, for an invention for—"Improvements in trusses for the cure or alleviation of hernia."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                         |
| BURROWS.<br>16th July 1853.             | 1701. BENJAMIN BURROWS, of Leicester, Designer, for an invention for—"Improvements in jacquard apparatus."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                              |
| NAYLOR.<br>16th July 1853.              | 1702. JAMES NAYLOR, of Hulme, near Manchester, in the County of Lancaster, Surveyor, for an invention for—"Improvements in lamps."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                      |
| COLT.<br>16th July 1853.                | 1703. SAMUEL COLT, of Spring Gardens, in the County of Middlesex, Gentleman, for an invention for—"Improved machinery for boring metals."<br><i>Partly a communication. Letters Patent sealed.</i>                                                                                                                                                                                                                                                                       |
| DE KERVÉGUEN.<br>16th July 1853.        | 1704. MARIE GABRIEL ADRIEN EDOUARD LE COAT DE KERVÉGUEN, of Paris, in the Empire of France, Retired Naval Officer, for an invention for—"An improved construction of wheel for motive-power and propelling purposes."<br><i>Provisional protection only.</i>                                                                                                                                                                                                             |
| DUNCAN.<br>16th July 1853.              | 1705. JOHN WALLACE DUNCAN, of Grove End Road, St. John's Wood, in the County of Middlesex, Gentleman, for an invention for—"Improvements in adhesive soles and heels for boots and shoes, and in apparatus used for preparing and applying the same."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| ALEXANDRE.<br>18th July 1853.           | 1706. ISAIE ALEXANDRE, of Bruxelles, but now residing in Birmingham, in the County of Warwick, Merchant, for an invention for—"Improvement in metallic pens and pen-holders."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                           |
| BOGGETT.<br>SMITH.<br>18th July 1853.   | 1707. WILLIAM BOGGETT, of Saint Martin's Lane, in the City of Westminster, Gentleman, and WILLIAM SMITH, of Margaret Street, in the County of Middlesex, Engineer, for an invention for—"Improvements in machines for cleaning and polishing knives."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| FONTAINE MOREAU.<br>18th July 1853.     | 1708. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, France, for an invention for—"A new mode of equilibrating indefinitely the weight of atmospheres."<br><i>A communication. Letters Patent sealed.</i>                                                                                                                                                     |
| WOOD.<br>WADE.<br>18th July 1853.       | 1709. THOMAS WOOD, Cotton Spinner, and GEORGE WADE, Mechanic, both of Sowerby Bridge, in the County of York, for an invention for—"Improvements in machinery or apparatus for opening, cleaning, carding, or otherwise preparing cotton or other fibrous materials to be spun."<br><i>Letters Patent sealed.</i>                                                                                                                                                         |
| PERKES.<br>18th July 1853.              | 1710. SAMUEL PERKES, Civil Engineer, 1, Wallbrook (City), London, for an invention for—"Improvements in the construction of portable metallic folding bedsteads, chair bedsteads, chairs, sofas, couches, settees, and such like articles for the use of emigrants and others, and part of which improvements are applicable to ordinary bedsteads, sofas, couches, chairs, and such like articles in general."<br><i>Letters Patent sealed.</i>                         |
| BRIMS.<br>19th July 1853.               | 1711. DONALD BRIMS, of No. 159, Southwark Bridge Road, Southwark, in the County of Surrey, Engineer, for an invention for—"An improved safety apparatus for the protection and preservation of life on water."<br><i>Complete specification; Letters Patent sealed.</i>                                                                                                                                                                                                  |
| FONTAINE MOREAU.<br>19th July 1853.     | 1712. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, for an invention for—"A new mode of fastening buttons to garments, and an improved button, and also in machinery for manufacturing the same."<br><i>A communication. Letters Patent sealed.</i>                                                                                                          |
| DART.<br>SILVERWOOD.<br>19th July 1853. | 1713. RICHARD DART, of the firm of Dart and Son, of 12, Bedford Street, Covent Garden, in the County of Middlesex, Carriage Lace Manufacturer, and EDWARD SILVERWOOD, Weaver, in the employ of the said firm, at the said place, for an invention for—"The adaptation of loom machinery to the purposes of embroidery for badges worn by the police, railway officials, and other officers, and which require a succession of figures."<br><i>Letters Patent sealed.</i> |
| BREESE.<br>19th July 1853.              | 1714. CHARLES BREESE, of Birmingham, in the County of Warwick, Japanner, for an invention for—"A method of forming designs and patterns upon papier-mâché, japanned iron, glass, metal, and other surfaces."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                            |



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| <p>ROBINSON.<br/>20th July 1853.</p> <p>POOLE.<br/>20th July 1853.</p> <p>SMITH.<br/>20th July 1853.</p> <p>NORTON.<br/>BORIE.<br/>20th July 1853.</p> <p>GOODMAN.<br/>20th July 1853.</p> <p>ST. CHARLES.<br/>20th July 1853.</p> <p>COCHRAN.<br/>20th July 1853.</p> <p>MILLS.<br/>20th July 1853.</p> <p>LILLEY.<br/>21st July 1853.</p> <p>BIRKETT.<br/>21st July 1853.</p> <p>MAYER.<br/>21st July 1853.</p> <p>THORP.<br/>21st July 1853.</p> <p>BARKER.<br/>21st July 1853.</p> <p>COCKEY.<br/>COCKEY.<br/>COCKEY.<br/>21st July 1853.</p> <p>MURDOCH.<br/>22nd July 1853.</p> <p>AUSTEN.<br/>22nd July 1853.</p> | <p>1715. JOHN ROBINSON, of No. 66, Coleman Street, in the City of London, Silk Throwster, for an invention for—"A new or improved apparatus for making tea and coffee, and other infusions or decoctions for chemical and other purposes."<br/><i>Letters Patent sealed.</i></p> <p>1716. MOSES POOLE, of Avenue Road, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in gas-regulators."—<i>A communication.</i><br/><i>Letters Patent sealed.</i></p> <p>1717. EDWIN DALTON SMITH, of Hertford Street, May Fair, in the County of Middlesex, for an invention for—"Improvements in crushing and washing ores and earths."<br/><i>Letters Patent sealed.</i></p> <p>1718. JAMES SHIELD NORTON and HENRY JULES BORIE, of Union Works, New Park Street, Southwark, Engineers and Ironfounders, for an invention for—"Improvements in the manufacture of tiles and stairs from plastic materials."<br/><i>Letters Patent sealed.</i></p> <p>1719. JOHN DENT GOODMAN, of Birmingham, in the County of Warwick, for an invention for—"Improvements in lanterns."—<i>A communication.</i><br/><i>Letters Patent sealed.</i></p> <p>1720. PHILIPPE POIRIER DE ST. CHARLES, of Fulham, in the County of Middlesex, Engineer, for an invention for—"Improvements in stopping and starting vehicles."<br/><i>Provisional protection only.</i></p> <p>1721. ALEXANDER COCHRAN, of Kirkton Bleach Works, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in finishing muslin and other fabrics."<br/><i>Letters Patent sealed.</i></p> <p>1722. JAMES MILLS, of Lower Brook Street, Grosvenor Square, in the County of Middlesex, Gentleman's Servant, for an invention for—"Improved machinery for propelling carriages."<br/><i>Provisional protection only.</i></p> <p>1723. JOHN LILLEY, of Thingwall, in the Parish of Woodchurch, County of Chester, Merchant, for an invention for—"Separating the refuse vegetable matter contained in the stalk and leaves of the plantain species, and also trees grown in tropical climates, from the fibrous material of the same, in order that the latter may be manufactured into ropes or cordage, and for other purposes for which hemp and flax are used."<br/><i>Letters Patent sealed.</i></p> <p>1724. WILLIAM BIRKETT, of Manningham Mills, Bradford, in the County of York, Chemist, for an invention for—"A method of cleansing or purifying and treating soap suds or wash waters, so as to fit them to be again used for the washing of wools and other similar matters."<br/><i>Letters Patent sealed.</i></p> <p>1725. SIMON CHARLES MAYER, of Paris, in the Empire of France, and of 16, Castle Street, Holborn, City, London, for an invention for—"An improved domino-bearer."<br/><i>Letters Patent sealed.</i></p> <p>1726. WILLIAM THORP, of Collyhurst, near Manchester, in the County of Lancaster, Dyer, Bleacher and Finisher, for an invention for—"Certain improvements in machinery for finishing and embossing plain and fancy woven fabrics."<br/><i>Letters Patent sealed.</i></p> <p>1727. The Reverend ALLEYNE HIGGS BARKER, Rector of Wouldham, in the County of Kent, Master of Arts, for an invention for—"Improvements in effecting communications between different points."<br/><i>Provisional protection NOT granted.</i></p> <p>1728. EDWARD COCKEY, HENRY COCKEY, and FRANCIS CHRISTOPHER COCKEY, of the firm of Edward Cockey and Sons, of the Frome Iron Foundry, Frome, in the County of Somerset, Engineers, for an invention for—"Improvements in the manufacture or production of cheese."<br/><i>Letters Patent sealed.</i></p> <p>1729. JAMES MURDOCH, of 7, Staple Inn, London, in the County of Middlesex, Patent Agent, for an invention for—"An improvement in stamping or shaping metals."—<i>A communication.</i><br/><i>Letters Patent sealed.</i></p> <p>1730. ALEXANDER ISAAC AUSTEN, of Trinity Place, Wandsworth Road, in the County of Surrey, Engineer, for an invention for—"Improvements in the apparatus used in the manufacture of mould candles."<br/><i>Letters Patent sealed.</i></p> |
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| GRAY.<br>REID.<br>22nd July 1853.         | 1731. THOMAS GRAY, of Newcastle, Tobacco Manufacturer, and JOHN REID, of the same place, Engineer, for an invention for—"An improved mode of manufacturing files and rasps."<br><i>Letters Patent sealed.</i>                                                                                                       |
| GILLAM.<br>22nd July 1853.                | 1732. JOHN GILLAM, of Woodstock, in the County of Oxford, Gentleman, for an invention for—"Improvements in apparatus for cleansing and separating corn, grain, and other seeds."<br><i>Letters Patent sealed.</i>                                                                                                   |
| SPENCER.<br>22nd July 1853.               | 1733. GEORGE SPENCER, of 12, Manor Road, Walworth, in the County of Surrey, for an invention for—"Improvements in springs for carriages."<br><i>Letters Patent sealed.</i>                                                                                                                                          |
| RYLANDS.<br>22nd July 1853.               | 1734. MARY ANN RYLANDS, of the Borough of Kingston-upon-Hull, Widow and Administratrix of Joseph Rylands, deceased, for an invention for—"Improvements in yards and spars of ships and other vessels."— <i>A communication from her late husband, the said JOSEPH RYLANDS.</i><br><i>Letters Patent sealed.</i>     |
| MANBY.<br>23rd July 1853.                 | 1735. CHARLES WILLIAM MANBY, of No. 3, Grove Villas, Finchley, in the County of Middlesex, Gentleman, for an invention for—"An improved shaving-brush, to be called 'The Traveller's Patent Shaving-brush.'"<br><i>Provisional protection only.</i>                                                                 |
| HUNTLEY.<br>23rd July 1853.               | 1736. WILLIAM HUNTLEY, of Ruswarp, near Whitby, in the County of York, Engineer, for an invention for—"Improvements in engines worked by steam, air, or fluids."<br><i>Letters Patent sealed.</i>                                                                                                                   |
| LALANDE.<br>23rd July 1853.               | 1737. AUGUSTE BUISSON LALANDE, of Bordeaux, in the empire of France, and of 16, Castle Street, Holborn, City of London, for an invention for—"Certain improved means for preventing accidents on railways."<br><i>Provisional protection only.</i>                                                                  |
| WARNER.<br>LEE.<br>23rd July 1853.        | 1738. FREDERIC WARNER, of the House of John Warner and Sons, of the Crescent, Jewin Street, in the City of London, and JOHN LEE, Foreman in the employ of the said John Warner and Sons, for an invention for—"Improvements in water-closets and urinals."<br><i>Letters Patent sealed: no specification filed.</i> |
| HALL.<br>23rd July 1853.                  | 1739. JOHN HALL, of Bedford, Machinist, for an invention for—"An improved mangle."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                 |
| NAPIER.<br>23rd July 1853.                | 1740. JAMES MURDOCH NAPIER, of York Road, Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in letterpress and other raised surface printing machines."<br><i>Letters Patent sealed.</i>                                                                                               |
| BARLOW.<br>PENDLEBURY.<br>23rd July 1853. | 1741. SAMUEL BARLOW, junior, of Stakehill, in the County of Lancaster, Bleacher, and JOHN PENDLEBURY, of Crumpsall, in the same County, Bleacher, for an invention for—"Certain improvements in machinery or apparatus for bleaching or cleansing textile fabrics or materials."<br><i>Letters Patent sealed.</i>   |
| HOWELL.<br>JAMIESON.<br>25th July 1853.   | 1742. JOSEPH BENNETT HOWELL, of Sheffield, in the County of York, Steel Manufacturer, and WILLIAM JAMIESON, of Ashton-under-Lyne, in the County of Lancaster, Machinist, for an invention for—"An improvement or improvements in the manufacture of saws."<br><i>Letters Patent sealed.</i>                         |
| DE ROSTIN.<br>25th July 1853.             | 1743. JOSEPH ARISTIDE FURST DE ROSTIN, of 4, South Street, Finsbury, London, Ship Builder, for an invention for—"A new mode of constructing floating bodies."<br><i>Provisional protection only.</i>                                                                                                                |
| CLARK.<br>25th July 1853.                 | 1744. ALEXANDER CLARK, of Gate Street, Lincoln's Inn Fields, in the County of Middlesex, Engineer, for an invention of "Improvements in regulating the speed and indicating the power of steam and other motive-power engines."<br><i>Letters Patent sealed.</i>                                                    |
| IRELAND.<br>25th July 1853.               | 1745. WILLIAM IRELAND, of Leek, in the County of Stafford, Gentleman, for an invention for—"Improvements in the mode or method of melting or fusing iron or other metals, and in the apparatus employed therein."<br><i>Letters Patent sealed.</i>                                                                  |
| COLLINS.<br>25th July 1853.               | 1746. JAMES COLLINS, of the City and County of Oxford, Soap Maker, for an invention for—"Improvements in the manufacture of paper."<br><i>Provisional protection only.</i>                                                                                                                                          |
| BITTEN.<br>25th July, 1853.               | 1747. ROBERT BITTEN, of Dartford, in the County of Kent, for an invention for—"Improvements in apparatus for ascertaining and indicating the supply of water in steam-boilers."<br><i>Letters Patent sealed.</i>                                                                                                    |



- DE LA RUE.  
25th July 1853.
- FERGUSON.  
25th July 1853.
- SPIEKER.  
25th July 1853.
- NEWTON.  
25th July 1853.
- NEWTON.  
25th July 1853.
- DAWSON.  
26th July 1853.
- COLE.  
26th July 1853.
- COLE.  
26th July 1853.
- MONEY.  
26th July 1853.
- BANKS.  
BANKS.  
26th July 1853.
- BUXTON.  
26th July 1853.
- LYTE.  
26th July 1853.
- BARRANS.  
26th July 1853.
- GIBLETT.  
26th July 1853.
- HOPKINS.  
26th July 1853.
- WARDER.  
26th July 1853.
- ARDING.  
27th July 1853.
- KNOWLES.  
27th July 1853.
- FONTAINE MOREAU.  
27th July 1853.
1748. WARREN DE LA RUE, of Bunhill Row, in the County of Middlesex, for an invention for—"Means of treating and preparing certain tar or naptha, and applying products thereof."  
*Letters Patent sealed.*
1749. JOHN FERGUSON, of the Heathfield Brick and Pottery Works, Glasgow, in the County of Lanark, North Britain, Brick and Pottery Manufacturer, for an invention for—"Improvements in kilns for baking or burning clay."  
*Letters Patent sealed.*
1750. CHARLES FREDERICK SPIEKER, of New York, in the United States of America, Professor of Chemistry, for an invention for—"Improvements in generating and fixing ammonia."  
*Letters Patent sealed.*
1751. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery or apparatus for stopping cables."  
*A communication. Letters Patent sealed.*
1752. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved manufacture of cutting tools."  
*A communication. Letters Patent sealed.*
1753. JOHN DAWSON, of Linlithgow, Scotland, Distiller, for an invention for—"A new instrument or apparatus for the purpose of preventing fraud in drawing off liquids."  
*Letters Patent sealed; no specification filed.*
1754. FREDERICK COLE, of 159, High Street, Camden Town, in the County of Middlesex, for an invention for—"An improvement of the lithographic press."  
*Provisional protection only.*
1755. FREDERICK COLE, of 159, High Street, Camden Town, in the County of Middlesex, for an invention for—"Facilitating and improving the process of inking in printing."  
*Provisional protection only.*
1756. ALFRED WALTER MONEY, of Chudleigh, in the County of Devon, for an invention for—"An improved bridle."  
*Provisional protection only.*
1757. THOMAS BANKS, of Derby, Mechanical Engineer, and HENRY BANKS, of Wednesbury, in the County of Stafford, Iron Merchant, for an invention for "Improvements in apparatus for retarding and stopping railway trains, which improvements are also applicable to vehicles travelling on common roads."  
*Letters Patent sealed.*
1758. THOMAS BUXTON, of Malton, in the County of York, Agricultural Implement Maker, for an invention for—"An improved mill for grinding."  
*Letters Patent sealed.*
1759. FARNHAM MAXWELL LYTE, of Florian, Torquay, in the County of Devon, Esquire, for an invention for—"Improvements in obtaining iodide of potassium when treating certain metals."  
*Letters Patent sealed.*
1760. JOSEPH BARRANS, of Peckham Lane, Deptford, in the County of Surrey, Engineer, for an invention for—"Improvements in steam boilers."  
*Letters Patent sealed.*
1761. JOHN GIBLETT, of Trowbridge, in the County of Wilts, Woollen Cloth Manufacturer, for an invention for—"Improvements in the manufacture of woollen cloths and other fabrics."  
*Letters Patent sealed; no specification filed.*
1762. LANSING E. HOPKINS, of New York, in the County of New York and State of New York, U. S. A., for an invention for—"The manufacture of hat bodies of fur and other like substances."  
*Letters Patent sealed.*
1763. ALFRED WILLIAM WARDER, of 1, Sydney Street, Brompton, for an invention for—"Improvements in gas stoves."  
*Letters Patent sealed.*
1764. FRANCIS ARDING, of the Albert Iron Works, Uxbridge, in the County of Middlesex, Agricultural Implement Manufacturer, for an invention for—"Improvements in threshing-machines."  
*Letters Patent sealed.*
1765. JOHN KNOWLES, of the City of Manchester, Manager, for an invention for—"Certain improvements in looms for weaving."  
*Letters Patent sealed.*
1766. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, France, for an invention for—"Certain improvements in the manufacture of tiles for roofing."  
*A communication. Letters Patent sealed.*



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| DE BEAUJEU.<br>27th July 1853. | 1767. ANGE LOUIS DU TEMPLE DE BEAUJEU, of Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"Improvements in rotatory engines."<br><i>Letters Patent sealed.</i>                                                                                                                                         |
| HERRING.<br>28th July 1853.    | 1768. EDWARD HERRING, of Southwark, in the County of Surrey, Manufacturing Chemist, for an invention for—"Improvements in the manufacture of sulphate of quinine."<br><i>Letters Patent sealed.</i>                                                                                                                                                              |
| CUMMINS.<br>28th July 1853.    | 1769. CHARLES CUMMINS, of 148, Leadenhall Street, in the City of London, Chronometer Maker, for an invention for—"Improving clock escapements."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                 |
| STANFORD.<br>28th July 1853.   | 1770. JOHN FORDHAM STANFORD, of No. 9, Arundel Street, in the Parish of St. Clement Danes, in the County of Middlesex, for an invention for—"An improvement in the method of draining dwelling-houses, and open and enclosed spaces in cities and towns where sewers and drains are now or may be hereafter constructed."<br><i>Provisional protection only.</i> |
| FORSTER.<br>28th July 1853.    | 1771. THOMAS FORSTER, of Streatham, in the County of Surrey, for an invention for—"Improvements in the manufacture of boots and shoes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                         |
| BRODIE.<br>28th July 1853.     | 1772. BENJAMIN COLLINS BRODIE, junior, of 13, Albert Road, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in treating or preparing black lead."<br><i>Letters Patent sealed.</i>                                                                                                                                                  |
| DETHIER.<br>29th July 1853.    | 1773. THEODORE DETHIER, of Pimlico, in the County of Middlesex, Cabinet Maker, for an invention for—"An improved machine for mortising, drilling, and boring."<br><i>Letters Patent sealed.</i>                                                                                                                                                                  |
| JARRETT.<br>29th July 1853.    | 1774. GRIFFITH JARRETT, of the City of London, for an invention for—"Improvements in machinery or apparatus for stamping or printing coloured surfaces."<br><i>Letters Patent sealed.</i>                                                                                                                                                                        |
| M'CONNELL.<br>29th July 1853.  | 1775. JAMES EDWARD M'CONNELL, of Wolverton, in the County of Buckingham, Civil Engineer, for an invention for—"Improvements in steam engines and boilers for marine purposes."<br><i>Letters Patent sealed.</i>                                                                                                                                                  |
| MACKAY.<br>29th July 1853.     | 1776. JAMES MACKAY, of Aigburth, near Liverpool, in the County of Lancaster, Merchant, for an invention for—"Improved apparatus for propelling vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                                                        |
| NEWTON.<br>29th July 1853.     | 1777. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in depositing metals or alloys of metals."<br><i>A communication. Letters Patent sealed.</i>                                                                                                           |
| WILD.<br>29th July 1853.       | 1778. WILLIAM WILD, of Salford, in the County of Lancaster, Iron Moulder, for an invention for—"Improvements in machinery or apparatus for covering rollers used in the manufacture of cotton and other textile materials with leather, cloth, or other substances."<br><i>Letters Patent sealed.</i>                                                            |
| HENLEY.<br>30th July 1853.     | 1779. WILLIAM THOMAS HENLEY, of St. John Street Road, London, Telegraph Engineer, for an invention for—"Improvements in modes of protecting wires for telegraphs."<br><i>Letters Patent sealed.</i>                                                                                                                                                              |
| DOUGLAS.<br>30th July 1853.    | 1780. GEORGE KATZ DOUGLAS, of the City of Chester, Engineer, for an invention for—"Certain improvements in the permanent way of railways."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                      |
| COOK.<br>30th July 1853.       | 1781. WILLIAM WOODS COOK, of Bolton, in the County of Lancaster, Muslin Manufacturer, for an invention for—"Improvements in the manufacture of woven fabrics and in the apparatus employed therein."<br><i>Letters Patent sealed.</i>                                                                                                                            |
| AMBLER.<br>30th July 1853.     | 1782. GEORGE AMBLER, of Settle, in the West Riding of the County of York, Mechanist, for an invention for—"Certain improvements in machinery for preparing for spinning cotton, wool, and other fibrous substances."<br><i>Provisional protection only.</i>                                                                                                      |
| RAMSAY.<br>30th July 1853.     | 1783. PATRICK RAMSAY, of Glasgow, in the County of Lanark, North Britain, Waterproof Cloth Maker, for an invention for—"Improvements in the construction of tents."<br><i>Provisional protection only.</i>                                                                                                                                                       |
| BELLFORD.<br>30th July 1853.   | 1784. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, City, London, Patent Agent, for an invention of "Improvements in paddle wheels for propelling vessels."<br><i>Provisional protection NOT granted.</i>                                                                                                                                    |



- FONTAINE-MOREAU.**  
30th July 1853.  
1785. PETER ARMAND LE COMTE DE FONTAINE-MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Ecliquier, Paris, France, for an invention for—"An improved mode of producing an electric current."—*A communication.* *Letters Patent sealed.*
- BUCHANAN.**  
1st August 1853.  
1786. JOHN BUCHANAN, of Leamington Priors, in the County of Warwick, Gentleman, for an invention for—"Improvements in propelling vessels." *Provisional protection only.*
- CADELL.**  
1st August 1853.  
1787. HENRY CADELL, of Dalkeith, Scotland, Mining Engineer, for an invention for—"A reaping machine." *Provisional protection only.*
- SMEETON.**  
1st August 1853.  
1788. JOHN SMEETON, of Limehouse, in the County of Middlesex, Export Out-fitter, &c., for an invention for—"Improvements in the manufacture of tablets and dial-plates, applicable to showing the distances of carriages travelling, barometers, compasses, and time-pieces." *Letters Patent sealed.*
- DE MEDEIROS.**  
1st August 1853.  
1789. JOHN CARVALHO DE MEDEIROS, of Passy, near Paris, Merchant, for an invention for—"Improvements in the means or processes for preserving metals from corrosion."—*A communication.* *Complete specification; Letters Patent sealed.*
- GRAY.**  
1st August 1853.  
1790. JOHN GRAY, of Rotherhithe, in the County of Surrey, Engineer, for an invention for—"Improved apparatus for consuming smoke." *Letters Patent sealed.*
- SCHÄFER.**  
**SCHÄFER.**  
1st August 1853.  
1791. PHILIPP SCHÄFER and FREDERICK SCHÄFER, of Brewer Street, in the County of Middlesex, Manufacturers, for an invention for—"An improvement in travelling bags." *Letters Patent sealed.*
- TRACY.**  
**TRACY.**  
1st August 1853.  
1792. JAMES PUDNEY TRACY, of Salisbury, in the County of Wilts, and JOHN HART TRACY, of Old Street, in the County of Middlesex, Engineer, for an invention for—"Improvements in cutting, reaping, and gathering machines." *Provisional protection only.*
- PERRING.**  
1st August 1853.  
1793. JOHN SHAE PERRING, of Bury, in the County of Lancaster, Civil Engineer, for an invention for—"Improvements in the permanent way of railways." *Letters Patent sealed.*
- LISTER.**  
1st August 1853.  
1794. SAMUEL C. LISTER, of Manningham, in the County of York, for an invention for—"Improvements in machinery for washing wool and hair." *Letters Patent sealed.*
- POPE.**  
1st August 1853.  
1795. AUGUSTUS RUSSELL POPE, of the State of Massachusetts, of the United States of America, for—"A new and useful or improved electro-magnetic alarm apparatus to be applied to a door or window, or both, of a dwelling-house or other building, for the purpose of giving an alarm in case of an attempt to open said door or window." *Letters Patent sealed.*
- GRIFFITHS.**  
1st August 1853.  
1796. ROBERT GRIFFITHS, of 69, Mornington Road, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in the manufacture of rivets and bolts." *Letters Patent sealed.*
- MAY.**  
1st August 1853.  
1797. CHARLES MAY, of Great George Street, Westminster, for an invention for—"Improvements in the manufacture of bricks." *Letters Patent sealed.*
- HOLME.**  
1st August 1853.  
1798. RICHARD HOLME, of the Borough of Kingston-upon-Hull, Gas Engineer, for an invention for—"Improvements in the manufacture of gas." *Letters Patent sealed.*
- VAILE.**  
1st August 1853.  
1799. HENRY PURSER VAILE, of Claydon Farm, Ashchurch, near Tewkesbury, Farmer, for an invention for—"Improvements in reaping machinery." *Provisional protection only.*
- BOTHAMS.**  
2nd August 1853.  
1800. JOHN BOTHAMS, of Gravesend, in the County of Kent, Gentleman, for an invention for—"Improvements in the manufacture of wheel-tires for locomotive engines and other carriages." *Provisional protection only.*
- GRIFFITHS.**  
2nd August 1853.  
1801. JOHN GRIFFITHS, of Stepside Saundfoot, near Tenby, in the County of Pembroke, South Wales, Engineer, for an invention for—"Certain improvements in steam-engines." *Letters Patent sealed.*
- PERKS.**  
2nd August 1853.  
1802. WILLIAM PERKS, junior, of Birmingham, in the County of Warwick, Glass and Lead Merchant, for an invention for—"A new or improved tap for drawing off liquids." *Letters Patent sealed.*



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| ANDERSON.<br>2nd August 1853.         | 1803. WILLIAM LANPHIR ANDERSON, of Norwood, in the County of Surrey Gentleman, for an invention for—"An improved propeller, and method of driving the same."<br><i>Provisional protection only</i>                                                                                                                                                                                                                                                                                        |
| CLARKE.<br>2nd August 1853.           | 1804. WILLIAM HENRY CLARKE, of 20, Great Marlborough Street, in the County of Middlesex, Peat and Manure Merchant, for an invention for—"Improvements in the manufacture of a composition resembling papier-mâché and carton-pierre, and applicable to the same purposes to which papier-mâché and carton-pierre are applied; parts of which invention may also be applied to the construction of ships and boats and roofing."— <i>A communication.</i><br><i>Letters Patent sealed.</i> |
| QUINCHE.<br>2nd August 1853.          | 1805. ANTOINE JOSEPH QUINCHE, of Paris, in the Empire of France, and of 16, Castle Street, Holborn, City, London, for an invention for—"An improved apparatus for measuring distances travelled over by vehicles."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                       |
| FONTAINE MOREAU.<br>2nd August 1853.  | 1806. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, France, for an invention for—"An improved mode of regulating the electric light."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                               |
| RAYMOND.<br>2nd August 1853.          | 1807. MEAD TERRY RAYMOND, of 25, Clement's Lane, Lombard Street, in the City of London, General Commission Agent, for an invention for—"Improvements in apparatus for retarding and stopping trains of carriages on railways."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                     |
| BOURA.<br>2nd August 1853.            | 1808. MATTHIAS EDWARD BOURA, of Crayford, in the County of Kent, India-rubber Manufacturer, for an invention for—"Improvements in supplying ships or other vessels with water, air, or ballast."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                         |
| RICHARDSON.<br>2nd August 1853.       | 1809. GEORGE RICHARDSON, of Gutter Lane, Cheapside, in the City of London, Gasfitter, for an invention for—"Improvements in stoves for warming or heating buildings."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                              |
| ATKINS.<br>3rd August 1853.           | 1810. THOMAS ATKINS, of Oxford, in the County of Oxford, Civil Engineer, for an invention for—"Improvements in transmitting power and communicating motion to agricultural implements."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                            |
| DANIELL.<br>3rd August 1853.          | 1811. JOSEPH CLISILD DANIELL, of Bath, for an invention for—"An improvement or improvements in preparing food and litter for cattle, pigs, and other animals."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                           |
| SLACK.<br>3rd August 1853.            | 1812. JOHN SLACK, of Manchester, in the County of Lancaster, Manager, for an invention for—"Improvements in reeds for looms."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                            |
| NEWTON.<br>3rd August 1853.           | 1813. WILLIAM EDWARD NEWTON, of the Office for Patents, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for cutting cardboard, paper, and other similar materials."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                                                                                                                   |
| STANSBURY.<br>3rd August 1853.        | 1814. CHARLES FREDERICK STANSBURY, of Pall Mall, in the County of Middlesex, for an invention for—"Certain improvements in machinery for tempering clay, and pressing or converting it into bricks."— <i>A communication.</i><br><i>Complete specification; Letters Patent sealed.</i>                                                                                                                                                                                                    |
| RODEN.<br>THOMAS.<br>3rd August 1853. | 1815. WILLIAM SARGEANT RODEN, of Ebbw Vale Iron Works, in the County of Monmouth, Gentleman, and WILLIAM THOMAS, of Ebbw Vale Iron Works, in the same county, Master Puddler, for an invention for—"Improvements in rolling metals."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                     |
| MACINTOSH.<br>3rd August 1853.        | 1816. JOHN MACINTOSH, of Pall Mall, in the County of Middlesex, for an invention for—"Improvements in the construction of bridges, viaducts, and other like structures."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                 |
| SERVAN.<br>3rd August 1853.           | 1817. ARISTIDE MICHEL SERVAN, of 8, Philpot Lane, in the City of London, for an invention for—"Improvements in the manufacture of soap."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                           |
| BILLINGS.<br>3rd August 1853.         | 1818. JAMES BILLINGS, of 8, Luton Place, George Street, Greenwich, for an invention for—"Improvements in roofing buildings."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                             |



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| <p>CUMMING.<br/>3rd August 1853.</p> <p>HICKSON.<br/>4th August 1853.</p> <p>SNELL.<br/>4th August 1853.</p> <p>ARMITAGE.<br/>4th August 1853.</p> <p>CLOUGH.<br/>4th August 1853.</p> <p>RODEN.<br/>4th August 1853.</p> <p>MOSS.<br/>4th August 1853.</p> <p>FLECHELLE.<br/>4th August 1853.</p> <p>WILSON.<br/>AUSTEN.<br/>4th August 1853.</p> <p>LALLEMAND.<br/>5th August 1853.</p> <p>SMITH.<br/>PHILLIPS.<br/>5th August 1853.</p> <p>PETERS.<br/>5th August 1853.</p> <p>SMITH.<br/>PHILLIPS.<br/>5th August 1853.</p> <p>BELLHOUSE.<br/>5th August 1853.</p> <p>GARFORTH.<br/>GARFORTH.<br/>5th August 1853.</p> <p>HUNT.<br/>5th August 1853.</p> | <p>1819. JOHN CUMMING, of Glasgow, in the County of Lanark, North Britain, Pattern Designer, for an invention for—"Improvements in printing shawls, handkerchiefs, piece goods, paper-hangings, and similar materials, and in the apparatus connected therewith."<br/><i>Provisional protection only.</i></p> <p>1820. WILLIAM HICKSON, of Carlisle, in the County of Cumberland, Gentleman, for an invention for—"Improvements in canal and river navigation, and in vessels to be used in such navigation, and in the mode of propelling the same."<br/><i>Letters Patent sealed.</i></p> <p>1821. CHARLES HILL SNELL, of the Triangle, Hackney, in the County of Middlesex, Chemist, for an invention for—"Improvements in the manufacture of soap."<br/><i>Letters Patent sealed.</i></p> <p>1822. GEORGE ARMITAGE, of Bradford, in the County of York, Dyer, for an invention for—"Improvements in the construction of presses."<br/><i>Letters Patent sealed.</i></p> <p>1823. CHARLES BUTLER CLOUGH, of Tyddyn, in the County of Flint, for an invention for—"Improvements in machinery or apparatus for washing, scouring, cleansing, or steaming woven fabrics, either in the piece or garment, also felts or fibrous substances, and corn, roots, seeds, or similar matters."<br/><i>Letters Patent sealed.</i></p> <p>1824. RICHARD BROWN RODEN, of Abersycham Iron Works, near Newport, Monmouthshire, for an invention for—"Improvements in rolling iron, and all other malleable metals and alloys."<br/><i>Letters Patent sealed.</i></p> <p>1825. THOMAS MOSS, of 24, Gainford Street, Islington, in the County of Middlesex, for an invention for—"Improvements in printing bank-notes, cheques, bills of exchange, and other documents requiring like security against being copied."<br/><i>Letters Patent sealed.</i></p> <p>1826. BARTHELEMY LOUIS FRANÇOIS XAVIER FLECHELLE, Gentleman, of Paris, in the French Empire, for an invention for—"Certain improvements in the means of carrying bedding and bathing the injured, ill or invalid persons."<br/><i>Letters Patent sealed.</i></p> <p>1827. GEORGE FERGUSSON WILSON, of Belmont, Vauxhall, in the County of Surrey, Managing Director of Price's Patent Candle Company, and ALEXANDER ISAAC AUSTEN, of Trinity Place, Wandsworth Road, in the County of Surrey, Engineer, for an invention for—"Improvements in the apparatus used in the manufacture of mould candles."<br/><i>Letters Patent sealed.</i></p> <p>1828. JOSEPH LALLEMAND, of Besançon, in the Empire of France, Chemist, for an invention for—"The manufacture of paper from peat."<br/><i>Letters Patent sealed.</i></p> <p>1829. WILLIAM SMITH and THOMAS PHILLIPS, of Snow Hill, in the County of Middlesex, Gas Engineers, for an invention for—"An improved boiler."<br/><i>Letters Patent sealed.</i></p> <p>1830. RICHARD PETERS, of Southwark, in the County of Surrey, Engineer, for an invention for—"An apparatus or machine for ascertaining the distance traversed by cabs and other vehicles."<br/><i>Provisional protection only.</i></p> <p>1831. WILLIAM SMITH and THOMAS PHILLIPS, of Snow Hill, in the County of Middlesex, Gas Engineers, for an invention for—"An improvement in gas stoves."<br/><i>Letters Patent sealed.</i></p> <p>1832. EDWARD TAYLOR BELLHOUSE, of the Eagle Foundry, Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in fireproof structures."<br/><i>Provisional protection only.</i></p> <p>1833. WILLIAM GARFORTH and JAMES GARFORTH, of Dukinfield, in the County of Chester, Engineers, for an invention for—"Improvements in machinery or apparatus for manufacturing bricks."<br/><i>Provisional protection only.</i></p> <p>1834. ROBERT HUNT, of 18, Cottage Place, Greenwich, in the County of Kent, Gentleman, for an invention for—"An improved tile, and an improved method of making tiles."<br/><i>Provisional protection only.</i></p> |
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| NORTON.<br>5th August 1853.              | 1835. JAMES LEE NORTON, of 8, Holland Street, Blackfriars, in the County of Surrey, for an invention for—"Improvements in obtaining wool from fabrics in a condition to be again used." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                         |
| NEWTON.<br>5th August 1853.              | 1836. WILLIAM NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the process of coating cast iron with other metals and the alloys of other metals."— <i>A communication. Letters Patent sealed.</i>                                                                                                                                                                                                                     |
| JUST.<br>6th August 1853.                | 1837. MARTIN ZADICK JUST, of the City of Manchester, Merchant, for an invention for—"Improvements in machinery for hulling and dressing paddy or rice."— <i>A communication. Provisional protection only.</i>                                                                                                                                                                                                                                                                                                 |
| HUGHES.<br>6th August 1853.              | 1838. JOHN HUGHES, of 34, Great George Street, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in building or forming structures under water or below the surface of the ground." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                |
| MARTEN.<br>6th August 1853.              | 1839. JOHN MARTEN, of High Street, Marylebone, in the County of Middlesex, for an invention for—"An improved shade for gas-burners and lamps." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                  |
| BELLFORD.<br>6th August 1853.            | 1840. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, City, London, for an invention for—"Improvements in the combination of glass with iron or other metals to serve for the construction of floors, walls, roofs, or parts thereof, or of windows for buildings, and also of translucent pavements, lights for subterranean apartments, and for any purpose for which a translucent medium possessing great strength is desirable."— <i>A communication. Provisional protection only.</i> |
| MARTIN.<br>6th August 1853.              | 1841. RICHARD BARTHOLOMEW MARTIN, of Suffolk Street, Haymarket, London, for an invention for—"An improved plate-warmer." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                        |
| SOUTHAN.<br>6th August 1853.             | 1842. HENRY SOUTHAN, of Gloucester, Gentleman, for an invention for—"Improvements in ploughs." <i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                                                                            |
| MORRISON.<br>6th August 1853.            | 1843. ROBERT MORRISON, of the Town and County of Newcastle-upon-Tyne, Engineer, for an invention for—"Improvements in apparatus for forging, shaping, and crushing iron and other materials." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                   |
| FONTAINE MOREAU.<br>6th August 1853.     | 1844. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, France, for an invention for—"Improvements in transmitting power."— <i>A communication. Provisional protection only.</i>                                                                                                                                                                                                                      |
| GREEN.<br>6th August 1853.               | 1845. JOHN GREEN, of 10, Queenhithe, in the City of London, for an invention for—"Improvements in printing machinery."— <i>A communication. Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                                  |
| CHRISTY.<br>KNOWLES.<br>8th August 1853. | 1846. RICHARD CHRISTY, of Fairfield, in the County of Lancaster, Manufacturer, and JOHN KNOWLES, of the same place, Manager, for an invention for—"Improvements in the manufacture of terry cloth or other woven fabrics having looped surfaces and in the machinery or apparatus connected therewith." <i>Letters Patent sealed.</i>                                                                                                                                                                         |
| NEWTON.<br>8th August 1853.              | 1847. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in horse-shoes."— <i>A communication. Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                    |
| HICKSON.<br>8th August 1853.             | 1848. WILLIAM HICKSON, of Carlisle, in the County of Cumberland, Gentleman, for an invention for—"Improvements in the application of heat for baking and drying purposes, and in the generation of steam." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                      |
| POOLE.<br>8th August 1853.               | 1849. MOSES POOLE, of Avenue Road, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in regulating the flow and pressure of gas and other fluids."— <i>A communication. Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                |
| HALL.<br>9th August 1853.                | 1850. THOMAS YOUNG HALL, of the Town and County of Newcastle-upon-Tyne, Coalowner, for an invention for—"Improvements in combining glass with other materials." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                 |
| HALL.<br>9th August 1853.                | 1851. THOMAS YOUNG HALL, of the Town and County of Newcastle-upon-Tyne, Coalowner, for an invention for—"Improvements in safety-lamps, part or parts of such improvements being applicable to the consumption or prevention of smoke, and for the purposes of ventilation generally." <i>Letters Patent sealed.</i>                                                                                                                                                                                           |



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| <p>ROWAN.<br/>9th August 1853.</p> <p>MOUTIS.<br/>9th August 1853.</p> <p>BRUCK.<br/>9th August 1853.</p> <p>BAINES.<br/>9th August 1853.</p> <p>PETERS.<br/>10th August 1853.</p> <p>PARSONS.<br/>10th August 1853.</p> <p>BURDEN.<br/>10th August 1853.</p> <p>TAYLOR.<br/>10th August 1853.</p> <p>GALIBERT.<br/>10th August 1853.</p> <p>PRINCE.<br/>10th August 1853.</p> <p>MACSWENY.<br/>10th August 1853.</p> <p>HALL.<br/>10th August 1853.</p> <p>NEWTON.<br/>10th August 1853.</p> <p>MUSHET.<br/>WHELE.<br/>10th August 1853.</p> <p>RUSHBURY.<br/>11th August 1853.</p> <p>FINNEMORE.<br/>CHATTAWAY.<br/>11th August 1853.</p> <p>DEWSNUP.<br/>11th August 1853.</p> <p>HALL.<br/>11th August 1853.</p> | <p>1852. WILLIAM ROWAN, of the firm of John Rowan and Sons, of Belfast, County Antrim, Engineers, for an invention for—"Improvements in looms for weaving, and apparatus connected therewith."<br/><i>Letters Patent sealed.</i></p> <p>1853. HENRY DES MOUTIS, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"An improved system of publicity."<br/><i>Provisional protection only.</i></p> <p>1854. LOUIS HARTOG BRUCK, of Mark Lane, in the City of London, Gentleman, for an invention for—"Improvements in the construction of tunnels, sewers, drains, pipes, tubes, channels, and other like conduits for hydraulic or pneumatic purposes."<br/><i>Provisional protection only.</i></p> <p>1855. WILLIAM BAINES, of Coverdale Terrace, near Birmingham, for an invention for—"Improvements in railways."<br/><i>Letters Patent sealed.</i></p> <p>1856. HENRY PETERS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in pens and penholders."<br/><i>Provisional protection only.</i></p> <p>1857. GEORGE PARSONS, of West Lambrook, in the County of Somerset, Engineer, for an invention for—"Improvements in steam engines and boilers."<br/><i>Letters Patent sealed.</i></p> <p>1858. JAMES BURDEN, of Stirling, in the County of Stirling, Scotland, Brewer, for an invention for—"An improved cock or tap."<br/><i>Letters Patent sealed.</i></p> <p>1859. JOHN GEORGE TAYLOR, of Glasgow, in the County of Lanark, North Britain, Merchant, for an invention for—"Improvements in desks, work-boxes, dressing-cases, tea-caddies, and similar articles, and in the arrangements and fittings thereof."<br/><i>Provisional protection only.</i></p> <p>1860. JEAN PIERRE ALBERT GALIBERT, of Paris, in the Empire of France, Doctor of Medicine, and of No. 4, Trafalgar Square, in the County of Middlesex, for an invention for—"An improved domestic telegraph."<br/><i>Letters Patent sealed.</i></p> <p>1861. ALEXANDER PRINCE, of the Office for Patents, No. 4, Trafalgar Square, Charing Cross, in the County of Middlesex, for an invention for—"A press applicable to the several purposes of lithography, autography, typography, chromo-lithography, or printing in colours, copperplate printing, cylinder printing, embossing, and copying letters."—<i>A communication.</i><br/><i>Provisional protection only.</i></p> <p>1862. THOMAS MACSWENY, of 4, America Square, in the City of London, for an invention for—"Improvements in the construction of ships and vessels."<br/><i>Letters Patent sealed.</i></p> <p>1863. SAMUEL HALL, of 16, Chadwell Street, Pentonville, in the County of Middlesex, for an invention for—"Improvements in furnaces."<br/><i>Letters Patent sealed.</i></p> <p>1864. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"An improved preparation or composition to be applied to pigments, for the purpose of facilitating the drying of the same."—<i>A communication.</i><br/><i>Letters Patent sealed.</i></p> <p>1865. DAVID MUSHET, of Coleford, in the County of Gloucester, Gentleman, and EDWIN WHELE, of Shiffnal, in the County of Salop, Engineer, for an invention for—"Improvements in propelling steam vessels or other vessels."<br/><i>Letters Patent sealed.</i></p> <p>1866. JOHN RUSHBURY, of Wolverhampton, in the County of Stafford, Locksmith, for an invention for—"A new or improved lock."<br/><i>Provisional protection only.</i></p> <p>1867. JOSEPH BACON FINNEMORE, of Easy Row, Birmingham, in the County of Warwick, Manufacturer, and EDWIN DANIEL CHATTAWAY, of Camden Street, Birmingham aforesaid, Architect, for an invention for—"Improvements in apparatus for ascertaining or registering the number of persons travelling by omnibuses or other vehicles, or who may have entered in or passed by, out of, or through any particular place, vehicles, or building during any given period."<br/><i>Letters Patent sealed.</i></p> <p>1868. THOMAS DEWSNUP, of Manchester, in the County of Lancaster, Stay and Corset Manufacturer, for an invention for—"Improvements in obtaining motive-power."<br/><i>Letters Patent sealed.</i></p> <p>1869. THOMAS KELLEY HALL, of Crewe, in the County of Chester, Smith, for an invention for—"Certain improvements in forge hammers."<br/><i>Letters Patent sealed.</i></p> |
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| BRAND.<br>11th August 1853.                 | 1870. RICHARD FARMER BRAND, of South Terrace, Willow Walk, Bermondsey, in the County of Surrey, Gunmaker, for an invention for—"Certain improvements in fire-arms and ordnance."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                |
| STEPHENSON.<br>11th August 1853.            | 1871. HENRY PALFREY STEPHENSON, of Thurloe Place, West Brompton, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the construction of suspension-bridges."<br><i>Provisional protection only.</i>                                                                                                                                                                               |
| NAYLOR.<br>11th August 1853.                | 1872. HENRY MOORE NAYLOR, of 111, Montpelier Row, Bloomsbury, Birmingham, in the County of Warwick, for an invention for—"Improvements in affixing postage and other stamps."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                   |
| DUNNICLIFF.<br>BAGLEY.<br>11th August 1853. | 1873. JOHN DEARMAN DUNNICLIFF, of Hyson Green, in the County of Nottingham, Lace Manufacturer, and JOHN WOODHOUSE BAGLEY, of Radford, in the said County of Nottingham, Lace Manufacturer, for an invention for—"Improvements in the manufacture of lace fabrics."<br><i>Letters Patent sealed.</i>                                                                                                              |
| DEARDS.<br>11th August 1853.                | 1874. GEORGE DEARDS, of Harlow, in the County of Essex, for an invention for—"Improvements in lamps."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                           |
| NEWELL.<br>11th August 1853.                | 1875. THOMAS FREDERICK NEWELL, of Cloak Lane, Queen Street, Cheapside, for an invention for—"Improvements in machinery for numbering the pages of books and documents."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                |
| LONGMAID.<br>11th August 1853.              | 1876. WILLIAM LONGMAID, of 65, Beaumont Square, Mile End, in the County of Middlesex, for an invention for—"Improvements in the manufacture of manure."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                         |
| PATTINSON.<br>11th August 1853.             | 1877. HUGH LEE PATTINSON, of Scots House, near West Bolden, Gateshead, for an invention for—"Improvements in the recovery of sulphur from alkali waste."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                  |
| ADAMS.<br>12th August 1853.                 | 1878. SAMUEL ADAMS, of West Bromwich, in the County of Stafford, Manufacturer, for an invention for—"A new or improved apparatus for regulating the supply of water to steam and other boilers; applicable also to regulating the supply of liquids to vessels and reservoirs in general."<br><i>Letters Patent sealed.</i>                                                                                      |
| VAN CANEGHEM.<br>12th August 1853.          | 1879. LOUIS VAN CANEGHEM, of No. 6, Conduit Street, Regent Street, in the County of Middlesex, and of No. 138, Faubourg St. Denis, Paris, Steel busk Manufacturer, for an invention for—"Improvements in fastening corsets by a mechanical busk."<br><i>Letters Patent sealed.</i>                                                                                                                               |
| STRONG.<br>12th August 1853.                | 1880. JAMES STRONG, of Smethwick, in the County of Stafford, Engineer, for an invention for—"Improvements in furnaces for smelting iron, stones, and ores."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                     |
| TURNER.<br>SWINBURN.<br>12th August 1853.   | 1881. THOMAS TURNER and JOHN FIELD SWINBURN, both of Birmingham, in the County of Warwick, Gun Manufacturers, for an invention for—"Improvements in sights for rifles."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                         |
| LAVENDER.<br>LAVENDER.<br>12th August 1853. | 1882. EDWARD LAVENDER and ROBERT LAVENDER, both of Deptford, in the County of Kent, General Traders, for an invention for—"An improved apparatus for preparing the materials employed in the manufacture of certain composition fire-lighters."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                         |
| HOLLIDAY.<br>12th August 1853.              | 1883. READ HOLLIDAY, of Huddersfield, in the County of York, for an invention for—"Improvements in lamps, and in lanterns used therewith."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                      |
| BROOMAN.<br>12th August 1853.               | 1884. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, & Company, of 166, Fleet Street, in the City of London, Patent Agents, for an invention for—"Improvements in the manufacture of fuel."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                             |
| BROOMAN.<br>12th August 1853.               | 1885. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Certain new compounds which may be employed for mouldings, frames, and many purposes to which wood, papier-mâché, plaster, gutta percha, and other like substances, are applicable."— <i>A communication.</i><br><i>Letters Patent sealed.</i> |
| BROOMAN.<br>12th August 1853.               | 1886. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"A method of obtaining impressions on dies and other engraved and figured surfaces by stamping or pressure."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                          |



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| BROOMAN.<br>12th August 1853.                     | 1887. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"A method of producing castings in malleable iron."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                              |
| TIZARD.<br>12th August 1853.                      | 1888. WILLIAM LITTELL TIZARD, of Aldgate, in the City of London, Brewers' Engineer, for an invention for—"A new combination or new combinations of materials suitable for buildings and other structures, and parts thereof, and machinery for producing the same." <i>Letters Patent sealed.</i>                                                                                                           |
| ALLAN.<br>12th August 1853.                       | 1889. THOMAS ALLAN, of Adelphi Terrace, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in electric conductors, and in the means of insulating electric conductors." <i>Letters Patent sealed.</i>                                                                                                                                                                           |
| TIZARD.<br>12th August 1853.                      | 1890. WILLIAM LITTELL TIZARD, of Aldgate, in the City of London, Brewers' Engineer, for an invention for—"Improvements in the construction of thermometers and other like indicators." <i>Provisional protection only.</i>                                                                                                                                                                                  |
| ALFRED.<br>FENTON.<br>CRONE.<br>12th August 1853. | 1891. WILLIAM ALDRED, of Manchester, Bleacher, RICHARD FENTON, of Prestwich, Waste Dealer, and WILLIAM CRONE, of Salford, Fent Dealer, all in the County of Lancaster, for an invention for—"Certain improvements in separating or recovering the wool from cotton and woollen or other similar mixed fabrics, whereby the wool is rendered capable of being again employed." <i>Letters Patent sealed.</i> |
| PICCIOTTO.<br>12th August 1853.                   | 1892. DANIEL ILLEL PICCIOTTO, of 8, Crosby Square, in the City of London, for an invention for—"Improvements in weaving."— <i>A communication from Chevalier Gaetano Bonelli, of Turin.</i> <i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| WAREHAM.<br>12th August 1853.                     | 1893. HORATIO WAREHAM, of Fenton, in the County of Stafford, Potter, for an invention for—"Certain improvements in inlaying or ornamenting earthenware vessels." <i>Provisional protection only.</i>                                                                                                                                                                                                        |
| BARTLEET.<br>12th August 1853.                    | 1894. ROBERT SMITH BARTLEET, of Redditch, in the County of Worcester, for an invention for—"Improvements in apparatus used in sewing." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                        |
| LIPSCOMBE.<br>13th August 1853.                   | 1895. FREDERICK LIPSCOMBE, of 233, Strand, in the County of Middlesex, Water Filter Manufacturer, for an invention for—"Improvements in evaporating." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                         |
| BOOND.<br>13th August 1853.                       | 1896. JOHN CLEGG BOOND, of the City of Manchester, Warehouseman, for an invention for—"Certain improvements in jacquard apparatus." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                           |
| PERKINS.<br>13th August 1853.                     | 1897. JOHN PERKINS, of the City of Manchester, Mechanical Draughtsman, for an invention for—"Improvements in the manufacture of oils." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                        |
| PEEL.<br>BROWNHILL.<br>13th August 1853.          | 1898. GEORGE PEEL, of the City of Manchester, Engineer, and ROBERT BROWN-HILL, of the same place, Manager, for an invention for—"Improvements in air-pump buckets, and in valves for steam-engines and other purposes." <i>Letters Patent sealed.</i>                                                                                                                                                       |
| HOSKYNES.<br>13th August 1853.                    | 1899. CHANDOS WREN HOSKYNES, of Wroxhall, in the County of Warwick, Esquire, for an invention for—"Improvements in the application of steam to cultivation." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                  |
| GWYNNE.<br>13th August 1853.                      | 1900. JOHN GWYNNE, of Essex Wharf, Essex Street, Strand, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the preparation of a black powder from coal, and in the applications thereof to the manufacture of paints, blacking, and various other purposes." <i>Letters Patent sealed.</i>                                                                                       |
| GWYNNE.<br>GWYNNE.<br>13th August 1853.           | 1901. JOHN GWYNNE, of Essex Wharf, Essex Street, Strand, in the County of Middlesex, Gentleman, and JAMES EGLESON ANDERSON GWYNNE, of the same place, Engineer, for an invention for—"Improvements in the preparation or manufacture of fuel." <i>Letters Patent sealed.</i>                                                                                                                                |
| GWYNNE.<br>GWYNNE.<br>13th August 1853.           | 1902. JOHN GWYNNE, of Essex Wharf, Essex Street, Strand, in the County of Middlesex, Gentleman, and JAMES EGLESON ANDERSON GWYNNE, of the same place, Engineer, for an invention for—"Improvements in the preparation of beet-root for the manufacture of sugar, which improvements are also applicable to the preparation of other vegetables." <i>Letters Patent sealed.</i>                              |



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| JOHNSON.<br>13th August 1853.              | 1903. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in dyeing or colouring textile fabrics and materials, and in the machinery or apparatus connected therewith."— <i>A communication from Emile Weber, of Mulhouse, in the Empire of France, Chemist.</i><br><i>Letters Patent sealed.</i>                         |
| JOHNSON.<br>13th August 1853.              | 1904. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture or treatment of gutta-percha, and in the application thereof."— <i>A communication from Louis François Alexandre Deseille, of Paris, in the Empire of France.</i><br><i>Provisional protection only.</i>                                     |
| SCOTT.<br>13th August 1853.                | 1905. EDWARD JOHN SCOTT, of Glasgow, in the County of Lanark, North Britain, Shoe Manufacturer, for an invention for—"Improvements in the manufacture of boots and shoes."<br><i>Provisional protection only.</i>                                                                                                                                                                                                               |
| HUGHES.<br>13th August 1853.               | 1906. HESKETH HUGHES, of the firm of Hughes and Denham, of Cottage Place, in the County of Middlesex, Engineer, for an invention for—"An improved method of producing cut and fancy patterns in velvets, silks, and other textile fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                    |
| TALABOT.<br>STIRLING.<br>15th August 1853. | 1907. JOSEPH LEON TALABOT, of Chaussée d'Antin, No. 57, Paris, Ironmaster, and JOHN DAVIE MORRIES STIRLING, of the Larches, near Birmingham, in the County of Warwick, Esquire, for an invention for—"Improvements in the manufacture of cast steel."<br><i>Letters Patent sealed.</i>                                                                                                                                          |
| DALGETY.<br>15th August 1853.              | 1908. ALEXANDER DALGETY, of 76, Florence Road, Deptford, in the County of Kent, for an invention for—"Improvements in rotatory steam-engines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                 |
| DERING.<br>15th August 1853.               | 1909. GEORGE EDWARD DERING, of Lockleys, in the County of Herts, for an invention for—"Improvements in electric telegraphs."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                   |
| DOUGLASS.<br>15th August 1853.             | 1910. ARCHIBALD DOUGLASS, of Norwich, Silk Manufacturer, for an invention for—"Improved machinery for stitching, back-stitching, and running."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                 |
| BROOMAN.<br>16th August 1853.              | 1911. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"A method of and machinery for reducing wood and other vegetable fibres to pulp, applicable to the manufacture of paper, paste-board, mill-board, papier-mâché, mouldings, and other like purposes."— <i>A communication.</i><br><i>Letters Patent sealed.</i> |
| STEWART.<br>16th August 1853.              | 1912. JAMES STEWART, of St. Paul's Road, Camden Square, in the County of Middlesex, Pianoforte Maker, for an invention for—"Improvements in pianofortes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                      |
| RANKIN.<br>16th August 1853.               | 1913. BENJAMIN RANKIN, of 1, College Street, Islington, in the County of Middlesex, Gentleman, for an invention for—"Improvements in propelling vessels."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                |
| FINCH.<br>LAMPORT.<br>16th August 1853.    | 1914. EDWARD FINCH, of Bridge Works, Chepstow, Engineer, and CHARLES LAMPORT, of Workington, Shipbuilder, for an invention for—"Improvements in the masts and rigging of ships."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                               |
| MARTIN.<br>16th August 1853.               | 1915. JOSEPH MARTIN, of Liverpool, in the County of Lancaster, Merchant, for an invention for—"Improvements in mills for grinding corn and other grain."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                 |
| ATHERTON.<br>ABBOTT.<br>16th August 1853.  | 1916. JOHN ATHERTON, of Preston, Machine Maker, and JAMES ABBOTT, of Accrington, Cotton Spinner, both in the County of Lancaster, for an invention for—"Certain improvements in and applicable to machines for winding yarn or thread, called 'winding-machines,' used in the the manufacture of cotton and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                         |
| FOXCROFT.<br>16th August 1853.             | 1917. PETER FOXCROFT, of Salford, in the County of Lancaster, Manager, for an invention for—"Certain improvements in machinery or apparatus for 'doubling' cotton and other fibrous materials."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                |
| RICHARDSON.<br>16th August 1853.           | 1918. GEORGE RICHARDSON, of the Eastern Counties Railway, Shoreditch, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in railway signals and in the means of preventing accidents upon railways, and in the apparatus connected therewith."<br><i>Letters Patent sealed.</i>                                                                                                                     |



- HUNT.  
16th August 1853. 1919. WILLIAM HUNT, of Lee Brook Chemical Works, near Wednesbury, in the County of Stafford, Manufacturing Chemist, or an invention for—"Certain improvements in manufacturing sulphuric acid." *Letters Patent sealed.*
- NEWTON.  
16th August 1853. 1920. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the distillation and purification of rosin oil."—*A communication.* *Letters Patent sealed.*
- HERITAGE.  
17th August 1853. 1921. JOHN HERITAGE, of Warwick, in the County of Warwick, Builder, for an invention for—"An improvement in the manufacture of bricks, pipes, tiles, coping, and such other articles as are or may be moulded in clay." *Letters Patent sealed.*
- PERKES.  
17th August 1853. 1922. SAMUEL PERKES, Civil Engineer, 1, Walbrook, City, London, for an invention for—"Improvements in the construction of cocks and such like articles."—*A communication.* *Provisional protection only.*
- DELARBRE.  
17th August 1853. 1923. FELIX ALEXANDRE VICTOR DELARBRE, of No. 9, Broad Street Buildings, in the City of London, Gentleman, for an invention for—"Certain improvements in treating fibrous substances." *Letters Patent sealed.*
- OGDEN.  
GIBSON.  
17th August 1853. 1924. THOMAS CLARK OGDEN, of Manchester, in the County of Lancaster, Cotton Spinner, and WILLIAM GIBSON, of the same place, Manager, for an invention for—"Improvements in machinery or apparatus for preparing, doubling, and twisting cotton and other fibrous materials." *Letters Patent sealed.*
- KIRKWOOD.  
17th August 1853. 1925. THOMAS KIRKWOOD, of the City of Edinburgh, Plumber, for an invention for—"Improvements applicable to ventilation and other purposes." *Letters Patent sealed.*
- GRIMSLEY.  
17th August 1853. 1926. THOMAS GRIMSLEY, of the City of Oxford, Sculptor, for an invention for—"Improvements in machinery for the manufacture of bricks, tiles, pipes, and pottery." *Letters Patent sealed.*
- FULLER.  
17th August 1853. 1927. GEORGE LEEDHAM FULLER, of 13, St. Mary's Road, Peckham, in the County of Surrey, Civil Engineer, for an invention for—"Improvements in steam-engines." *Letters Patent sealed.*
- MORTIMER.  
17th August 1853. 1928. JOSEPH HART MORTIMER, of 1, Chester Place, Old Kent Road, in the County of Surrey, for an invention for—"Improvements in lamps." *Letters Patent sealed.*
- CLOUGH.  
18th August 1853. 1929. ROBERT CLOUGH, of Liverpool, for an invention for—"Improvements in the construction of ships and other vessels." *Letters Patent sealed.*
- CHALMERS.  
18th August 1853. 1930. DAVID CHALMERS, of Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in machinery or apparatus for cutting the pile of woven fabrics." *Letters Patent sealed.*
- HARKES.  
18th August 1853. 1931. DAVID HARKES, of Mere, in the County of Chester, for an invention for—"Improvements in machinery or apparatus for mowing, reaping, or other similar purposes." *Letters Patent sealed.*
- PIGÉ.  
18th August 1853. 1932. ALEXIS PIGÉ, of Greek Street, Soho, in the County of Middlesex, Gentleman, for an invention for—"Improvements in locks and their keys."—*A communication.* *Letters Patent sealed.*
- SYMES.  
18th August 1853. 1933. WILLIAM SYMES, of Pimlico, in the County of Middlesex, Gentleman, for an invention for—"An improved fruit-cleaning machine." *Provisional protection only.*
- LARMANJAT.  
18th August 1853. 1934. JEAN LARMANJAT, of Paris, in the Empire of France, and of 16, Castle Street, Holborn, London, for an invention for—"Certain improvements in obtaining motive-power." *Provisional protection only.*
- FAIRBAIRN.  
18th August 1853. 1935. PETER FAIRBAIRN, of Leeds, in the County of York, Machinist, for an invention for—"Certain improvements in heckling-machines." *Letters Patent sealed.*
- CURTAIN.  
18th August 1853. 1936. WILLIAM CURTAIN, of Retreat Place, Homerton, in the County of Middlesex, Carpet Designer, for an invention for—"Improved machinery for printing textile fabrics, oilcloths, leather, paper-hangings, and other similar fabrics or materials." *Letters Patent sealed.*
- CORNELIUS.  
18th August 1853. 1937. WILLIAM CORNELIUS, of Panton Street, Haymarket, in the County of Middlesex, for an invention for—"Improvements in gilding porcelain, glass, and sch like materials."—*A communication.* *Letters Patent sealed.*



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| DE BERGEVIN.<br>18th August 1853.             | 1938. AUGUSTE MATHIEU MAURICE DE BERGEVIN, of Paris, in the Empire of France, for an invention for—"Improvements in the manufacture of coke, and in the apparatus connected therewith, and in treating the products obtained therefrom."— <i>A communication from Monsieur Guillaume Louis Edouard Buran, of Paris.</i><br><i>Letters Patent sealed.</i>                                                                                             |
| HUGHES.<br>18th August 1853.                  | 1939. THOMAS HUGHES, of Birmingham, in the County of Warwick, Brass-founder, for an invention for—"An improvement or improvements applicable to writing-slates, pocket and memorandum books, and other such like articles."<br><i>Provisional protection only.</i>                                                                                                                                                                                   |
| DE FABECK.<br>19th August 1853.               | 1940. FREDERICK WILLIAM ALEXANDER DE FABECK, of No. 6, Portland Road, in the County of Middlesex, for an invention for—"The construction of viaducts, bridges, lintels, beams, girders, and other horizontal structures and supports."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                      |
| LUTWYCHE.<br>19th August 1853.                | 1941. ALFRED LUTWYCHE, of Birmingham, in the County of Warwick, for an invention for—"An improved mode of manufacturing steel or other metallic pens."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                        |
| WATT.<br>BURGESS.<br>19th August 1853.        | 1942. CHARLES WATT, of 15, Selwood Place, Old Brompton, and HUGH BURGESS, of 7, Percy Street, Bedford Square, both in the County of Middlesex, for an invention for—"Improvements in disintegrating and pulping vegetable substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                                              |
| HEYES.<br>19th August 1853.                   | 1943. GEORGE HEYES, of Bolton, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in looms."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                              |
| KIMBERLEY.<br>20th August 1853.               | 1944. JAMES KIMBERLEY, of Birmingham, in the County of Warwick, Wholesale Ironmonger and Manufacturer, for an invention for—"An improvement or improvements in raising and lowering various kinds of window-blinds, and in opening and closing window and other curtains; applicable also to the raising and lowering, or winding and unwinding of maps and other sheets or articles, and to the closing of doors."<br><i>Letters Patent sealed.</i> |
| COCHRAN.<br>20th August 1853.                 | 1945. JOHN WEBSTER COCHRAN, of No. 17, Gower Street, London, in the County of Middlesex, for an invention for—"Improvements in machinery for crushing, grinding, and pulverizing stone, quartz, or other substances."<br><i>Complete specification; Letters Patent sealed.</i>                                                                                                                                                                       |
| POLAILLON.<br>MAILLARD.<br>20th August 1853.  | 1946. JEAN BAPTISTE POLAILLON, Gentleman, and FRANÇOIS MAILLARD, Starch Manufacturer, both of Lyons, in the Empire of France, for an invention for—"Improvements in the manufacture of starch."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                     |
| SIEVIER.<br>20th August 1853.                 | 1947. ROBERT MOORE SIEVIER, of Louviers, in the Empire of France, but now residing at Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Improved machinery for the manufacture of terry or cut-pile fabrics, parts of which are applicable to the weaving of other fabrics."<br><i>Letters Patent sealed.</i>                                                                                                              |
| VAUGHAN.<br>SCATTERGOOD.<br>20th August 1853. | 1948. WILLIAM VAUGHAN, of Stockport, in the County of Chester, Gentleman, and JOHN SCATTERGOOD, of Heaton Norris, in the County of Lancaster, Machinist, for an invention for—"Certain improvements in machinery, apparatus, or implements for weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                            |
| CUNINGHAME.<br>20th August 1853.              | 1949. ALEXANDER CUNINGHAME, of Glasgow, in the County of Lanark, North Britain, Ironmaster, for an invention for—"Improvements in the manufacture or production of alkalies and their salts or alkaline salts."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                     |
| SCHMOLLINGER.<br>SMITH.<br>22nd August 1853.  | 1950. WILLIAM SCHMOLLINGER, of Gracechurch Street, in the City of London, Gentleman, and EDWARD GRAINGER SMITH, of Lambeth, in the County of Surrey, Machinist, for an invention for—"Improvements in the means of converting reciprocating or rectilinear motion into rotatory motion."<br><i>Provisional protection only.</i>                                                                                                                      |
| LOMAS.<br>22nd August 1853.                   | 1951. SAMUEL LOMAS, of the City of Manchester, Manager, for an invention for—"An improved silk-cleaner."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                            |
| STEVEN.<br>22nd August 1853.                  | 1952. JOHN STEVEN, of Edinburgh, in the County of Edinburgh, Scotland, Railway-carriage Builder, for an invention for—"An improved axle-box for railway carriages and wagons."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                      |
| BELLFORD.<br>22nd August 1853.                | 1953. AUGUSTE EDOUARD LORABOUX BELLFORD, of 16, Castle Street, Holborn, City, London, Patent Agent, for an invention for—"Improvements in the manufacture of certain mineral oils and paraffine."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                          |



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| WARMONT.<br>22nd August 1853.                        | 1954. VICTOR EMILE WARMONT, of Neuilly, Seine, in the Empire of France, for an invention for—"Improvements in dyeing and ornamenting skins, fabrics, and other substances."<br><i>Letters Patent sealed.</i>                                                                                                              |
| OSBOURN.<br>22nd August 1853.                        | 1955. FREDERICK OSBOURN, of Albion Street, King's Cross, in the County of Middlesex, Tailor, for an invention for—"Improved machinery for cutting woven and other fabrics."<br><i>Letters Patent sealed.</i>                                                                                                              |
| COWPER.<br>23rd August 1853.                         | 1956. CHARLES COWPER, of 20, Southampton Buildings, Chancery Lane, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the permanent way of railways."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                        |
| BROWN.<br>23rd August 1853.                          | 1957. WILLIAM BROWN, of the City of Glasgow, Merchant, for an invention for—"An improved mode of obtaining volatile products from bituminous coals and other bituminous substances."<br><i>Provisional protection only.</i>                                                                                               |
| POOLE.<br>23rd August 1853.                          | 1958. MOSES POOLE, of Avenue Road, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in crushing and pulverizing quartz and other substances."— <i>A communication from T. Briggs Smith, of Taunton, Massachusetts, United States of America.</i><br><i>Letters Patent sealed.</i>            |
| WEBSTER.<br>23rd August 1853.                        | 1959. JAMES WEBSTER, of Leicester, for an invention for—"Improvements in pressure gauges."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                               |
| MEDWIN.<br>23rd August 1853.                         | 1960. THOMAS CHARLES MEDWIN, of the firm of Messrs. Medwin & Hall, of the Blackfriars Road, in the County of Middlesex, Engineers, for an invention for—"Improvements in steam-engine boilers."<br><i>Letters Patent sealed.</i>                                                                                          |
| RETTIE.<br>23rd August 1853.                         | 1961. WILLIAM RETTIE, of Aberdeen, in the Kingdom of Scotland, Lamp Manufacturer, for an invention for—"An improved construction of submarine lamp."<br><i>Letters Patent sealed.</i>                                                                                                                                     |
| HERBERT.<br>WHITAKER.<br>23rd August 1853.           | 1962. THOMAS HERBERT, of the firm of Thomas Herbert and Company, of the Town of Nottingham, Lace Manufacturers, and EDWARD WHITAKER, of the Town of Nottingham, Mechanic, for an invention for—"Improvements in warp machinery employed in the manufacture of purled and other fabrics."<br><i>Letters Patent sealed.</i> |
| WHITELEY.<br>23rd August 1853.                       | 1963. JOHN WHITELEY, of Stapleford, in the County of Nottingham, Lace Manufacturer, one of the firm of Messieurs Whiteley, Ward, & Company, Lace Manufacturer, of Stapleford aforesaid, for an invention for—"Improvements in warp machinery for the manufacture of textile fabrics."<br><i>Letters Patent sealed.</i>    |
| MANN.<br>23rd August 1853.                           | 1964. WILLIAM MANN, of Stepney, in the County of Middlesex, Gas Engineer, for—"Improvements in the purification of gas, and in the treatment of the material used in such purification."<br><i>Letters Patent sealed.</i>                                                                                                 |
| McLEISH.<br>23rd August 1853.                        | 1965. WILLIAM McLEISH, of Battersea, in the County of Surrey, for an invention for—"A machine for destroying weeds."<br><i>Provisional protection only.</i>                                                                                                                                                               |
| BELLFORD.<br>24th August 1853.                       | 1966. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street (City), Holborn, Patent Agent, for an invention for—"Improvements in fire-arms."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                            |
| HINE.<br>MUNDELLA.<br>THOMPSON.<br>24th August 1853. | 1967. BENJAMIN HORNBUCKLE HINE and ANTHONY JOHN MUNDELLA, of the Town of Nottingham, Manufacturers, and THOMAS THOMPSON, also of the Town of Nottingham, Mechanic, for an invention for—"Improvements in machinery for the manufacture of textile and looped fabrics."<br><i>Letters Patent sealed.</i>                   |
| CULVERHOUSE.<br>24th August 1853.                    | 1968. GEORGE CULVERHOUSE, of 72, English Street, Hull, for an invention for—"Improvements in manufacturing compost or manure."<br><i>Letters Patent sealed.</i>                                                                                                                                                           |
| FOSTER.<br>24th August 1853.                         | 1969. THOMAS FOSTER, of Manchester, in the County of Lancaster, Engraver and Lithographer, for an invention for—"Certain improvements in machinery or apparatus applicable to etching or engraving upon plain, cylindrical, or other surfaces."<br><i>Provisional protection only.</i>                                    |
| HILL.<br>THOMSON.<br>24th August 1853.               | 1970. THOMAS HILL, of Glasgow, in the County of Lanark, North Britain, Modeller, and ALEXANDER THOMSON, of the same place, Brick Builder, for an invention for—"Improvements in the manufacture of pipes or hollow articles from plastic materials."<br><i>Letters Patent sealed.</i>                                     |



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| POLLARD.<br>MUMBY.<br>24th August 1853.  | 1971. GEORGE POLLARD, of 64, Watling Street, in the City of London, Envelope Manufacturer, and GEORGE MUMBY, of Hunter Street, Brunswick Square, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in machinery or apparatus for the manufacture of envelopes." <i>Letters Patent sealed.</i> |
| HELY.<br>24th August 1853.               | 1972. ALFRED AUGUSTUS DE REGINALD HELY, of Cannon Row, Westminster, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements applicable to shades or chimneys for lamps, gas and other burners." <i>Letters Patent sealed.</i>                                                                       |
| SWONNELL.<br>24th August 1853.           | 1973. ALFRED SWONNELL, of Kingston-on-Thames, in the County of Surrey, Gentleman, for an invention for—"An improved construction of tie for neckcloths and neck-ribbons, applicable also to neck-ribbons of caps and bonnets." <i>Letters Patent sealed.</i>                                                                       |
| HEARD.<br>24th August 1853.              | 1974. EDWARD HEARD, of Regent Street, Lambeth, in the County of Surrey, Chemist, for an invention for—"A certain mixture or composition of chemical agents for rendering sea-water fit for washing, and for softening hard water for similar purposes." <i>Letters Patent sealed.</i>                                              |
| BANKS.<br>24th August 1853.              | 1975. CHARLES COLLYFORD BANKS, of Clapham, in the County of Surrey, Brass Founder and Finisher, for an invention for—"Improvements in lubricators." <i>Letters Patent sealed.</i>                                                                                                                                                  |
| TOMPSON.<br>25th August 1853.            | 1976. ALFRED BECK TOMPSON, of Richmond, in the County of Surrey, Gentleman, for an invention for—"A new or improved spring door hinge."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                     |
| AUSTIN.<br>25th August 1853.             | 1977. WILLIAM AUSTIN, of 27, Holywell Street, Westminster, for an invention for—"Improvements in the manufacture of blocks of plastic materials, for building purposes." <i>Letters Patent sealed.</i>                                                                                                                             |
| SHAW.<br>STEINTHAL.<br>25th August 1853. | 1978. JOHN SHAW, of Manchester, in the County of Lancaster, Landscape Gardener, and JOSEPH STEINTHAL, of the same place, Clerk, for an invention for—"An improved manufacture of artificial manure." <i>Letters Patent sealed.</i>                                                                                                 |
| DAVIS.<br>25th August 1853.              | 1979. GEORGE DAVIS, of the City of London, for an invention for—"Certain apparatus for distinguishing genuine from counterfeit coin." <i>Letters Patent sealed.</i>                                                                                                                                                                |
| BROOMAN.<br>25th August 1853.            | 1980. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Machinery for digging, breaking, and trenching land."— <i>A communication.</i> <i>Provisional protection only.</i>                                               |
| BROOMAN.<br>26th August 1853.            | 1981. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the treatment of wool and silk, and in machinery for preparing silk so treated."— <i>A communication.</i> <i>Letters Patent sealed.</i>          |
| DE VARROC.<br>26th August 1853.          | 1982. EUGÈNE DE VARROC, of Great Chesterfield Street, in the County of Middlesex, Artist, for an invention for—"Certain means of depriving caoutchouc of all unpleasant odour, and of imparting to it various agreeable perfumes." <i>Letters Patent sealed.</i>                                                                   |
| WILSON.<br>26th August 1853.             | 1983. ROBERT WILSON, of Glasgow, in the County of Lanark, North Britain, Calenderer, for an invention for—"Improvements in the treatment or finishing of textile fabrics." <i>Provisional protection only.</i>                                                                                                                     |
| WATSON.<br>26th August 1853.             | 1984. WILLIAM WATSON, junior, of Leeds, Manufacturing Chemist, for an invention for—"Improvements in apparatus for manufacturing prussiate of potash." <i>Provisional protection only.</i>                                                                                                                                         |
| ROBERTS.<br>27th August 1853.            | 1985. RICHARD ROBERTS, of the City of Manchester, Engineer, for an invention for—"Improvements in the construction of casks and other vessels." <i>Letters Patent sealed.</i>                                                                                                                                                      |
| BARGNANO.<br>27th August 1853.           | 1986. ALEXANDER LOUIS BARGNANO, of New York, in the United States of America, but now residing at the Hotel de Versailles, Leicester Place, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of paper and pasteboard." <i>Provisional protection only.</i>                             |
| HARGREAVES.<br>27th August 1853.         | 1987. WILLIAM HARGREAVES, of Bradford, in the County of York, Machine Wool-comber, for an invention for—"Improvements in machinery for preparing and combing wool, hair, flax, silk, and other fibrous substances." <i>Letters Patent sealed.</i>                                                                                  |



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| LANCASTER.<br>27th August 1853.           | 1988. CHARLES WILLIAM LANCASTER, of New Bond Street, in the County of Middlesex, Gunmaker, for an invention for—"A method of and machinery for manufacturing or producing certain descriptions of gun and pistol barrels."<br><i>Letters Patent sealed.</i>                                                                      |
| HILL.<br>27th August 1853.                | 1989. JAMES HILL, of Stalybridge, in the County of Lancaster, Cotton Spinner, for an invention for—"Certain improvements in machinery used for spinning, doubling, and winding cotton-wool, flax, silk, and other fibrous materials."<br><i>Letters Patent sealed.</i>                                                           |
| HELBRONNER.<br>27th August 1853.          | 1990. RODOLPHE HELBRONNER, Congreve and Chemical Light Manufacturer, of No. 3, Spring Terrace, Vauxhall Walk, in the Parish of St. Mary, Lambeth, Surrey, for an invention for—"A chemical light, and apparatus for manufacturing the same."<br><i>Provisional protection only.</i>                                              |
| STIRLING.<br>27th August 1853.            | 1991. JOHN DAVIE MORRIES STIRLING, of the Larches, near Birmingham, in the County of Warwick, Esquire, for an invention for—"Improvements in the manufacture of rails and parts of railways, and tires of railway wheels."<br><i>Letters Patent sealed.</i>                                                                      |
| CORDIER.<br>27th August 1853.             | 1992. HENRI GEORGES CORDIER, Gunsmith, of Paris, in the French Empire, for an invention for—"Improvements in rotary pumps."<br><i>Provisional protection only.</i>                                                                                                                                                               |
| TAYLOR.<br>27th August 1853.              | 1993. SAMUEL TAYLOR, of 53, King Street, Manchester, Barrister-at-Law, for an invention for—"Improvements in apparatus for generating and applying carbonic acid gas."<br><i>Letters Patent sealed.</i>                                                                                                                          |
| NEWTON.<br>27th August 1853.              | 1994. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of steam hammer."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                           |
| ROBINSON.<br>27th August 1853.            | 1995. GEORGE ROBINSON, of the Town and County of Newcastle-upon-Tyne, Physician, for an invention for—"The novel application of the slags or refuse matters obtained during the manufacture of metals."<br><i>Letters Patent sealed.</i>                                                                                         |
| LACEY.<br>WILKINSON.<br>27th August 1853. | 1996. EDWARD LACEY, of Handsworth, in the County of Stafford, Maltster, and WILLIAM WILKINSON, of Nottingham, Pattern Designer, for an invention for—"A new description of cloth or fabric, applicable to most purposes to which woven and knitted fabrics are applied."<br><i>Provisional protection only.</i>                  |
| HORNBLOWER.<br>27th August 1853.          | 1997. JOSIAH HORNBLOWER, of Poplar, in the County of Middlesex, Engineer, for an invention for—"Improvements in machinery for steering vessels."<br><i>Provisional protection only.</i>                                                                                                                                          |
| FOSS.<br>29th August 1853.                | 1998. JOHN FOSS, of 15, Aldgate, in the City of London, Stationer, for an invention for—"Improvements in printing apparatus."<br><i>Letters Patent sealed.</i>                                                                                                                                                                   |
| BEREND.<br>29th August 1853.              | 1999. ADOLPH BEREND, of 3, Fenchurch Buildings, in the City of London, for an invention for—"Improvements in instantaneous light apparatus."— <i>A communication.</i> <i>Provisional protection only.</i>                                                                                                                        |
| CUNDY.<br>29th August 1853.               | 2000. JOSEPH CUNDY, of 21, Victoria Road, Kensington, in the County of Middlesex, for an invention for—"Improvements in kitchen ranges and cooking apparatus."<br><i>Letters Patent sealed.</i>                                                                                                                                  |
| GRIFFON.<br>29th August 1853.             | 2001. EDWARD PATRICK GRIFFON, of the City of Dublin, Architect, for an invention for—"Improvements in window frames and sashes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                |
| FONTAINE MOREAU.<br>29th August 1853.     | 2002. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, France, Patent Agent, for an invention for—"Improvements in apparatus for heating."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                              |
| FONTAINE MOREAU.<br>29th August 1853.     | 2003. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, France, Patent Agent, for an invention for—"Certain improvements in the production of electricity."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                              |
| JOHNSON.<br>29th August 1853.             | 2004. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the preparation and application of gluten."— <i>A communication from François Durand, of Toulouse, in the Empire of France.</i> <i>Letters Patent sealed.</i> |



- NEWTON.  
31st August 1853. 2021. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for making barrels and other casks."—*A communication. Letters Patent sealed.*
- JOHNSON.  
31st August 1853. 2022. WILLIAM BECKETT JOHNSON, of Manchester, in the County of Lancaster, Manager for Messrs. Ormerod and Son, Engineers and Ironfounders, for an invention for—"Improvements in steam-engines and in apparatus connected therewith." *Letters Patent sealed.*
- ILIFFE.  
NEWMAN.  
31st August 1853. 2023. HENRY JEREMIAH ILIFFE and JAMES NEWMAN, of Birmingham, in the County of Warwick, Manufacturers, for an invention for—"Improvements in the manufacture of buttons." *Letters Patent sealed.*
- GRAZEBROOK.  
31st August 1853. 2024. JOHN PHILLIPS GRAZEBROOK, of Audnam, near Stourbridge, in the County of Worcester, Glass Manufacturer, for an invention for—"Improvements in the working barrels of pumps, which improvements are also applicable to lining other metallic tubes." *Provisional protection only.*
- BROOMAN.  
31st August 1853. 2025. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"An improvement in paddle-wheels."—*A communication. Letters Patent sealed.*
- MACINTOSH.  
1st September 1853. 2026. JOHN MACINTOSH, of 12, Pall Mall, Naval Engineer, for an invention for—"Improvements in breakwaters." *Letters Patent sealed; no specification filed.*
- OXLAND.  
1st September 1853. 2027. ROBERT OXLAND, of Plymouth, for an invention for—"Improvements in the manufacture of manure." *Letters Patent sealed.*
- HINKS.  
WELLS.  
DOWLER.  
2nd September 1853. 2028. JOHN HINKS and GEORGE WELLS, of Birmingham, in the County of Warwick, Manufacturers and Copartners, and FREDERICK DOWLER, of Birmingham aforesaid, Machinist, for an invention for—"New or improved machinery to be used in the manufacture of metallic pens and penholders." *Letters Patent sealed.*
- TAYLER.  
GRIFFITHS.  
LEES.  
2nd September 1853. 2029. JOHN TAYLER, of Manchester, in the County of Lancaster, Engineer, JAMES GRIFFITHS, of Wolverhampton, in the County of Stafford, Engineer, and THOMAS LEES, of Stockport, in the County of Chester, Machinist, for an invention for—"Certain improvements in steam-boilers, and in apparatus applicable thereto and to be used therewith." *Letters Patent sealed.*
- AURIC.  
September 1853. 2030. BARTHÉLEMY AURIC, of Grenelle, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"The new application of sulphate of lime to the fabrication of the mosaics and incrustations, and for any new processes of coloration of certain varieties of this substance." *Provisional protection only.*
- PRITCHETT.  
2nd September 1853. 2031. JAMES PIGOTT PRITCHETT the younger, of the City of York, Architect, for an invention for—"Improvements in window sashes and shutters." *Letters Patent sealed.*
- CAROSIO.  
2nd September 1853. 2032. AUGUSTINO CAROSIO, of Genoa, now of Connaught Square, in the County of Middlesex, Doctor of Medicine, for an invention for—"Improvements in obtaining power by the aid of an electric current, for motive and telegraphic purposes." *Letters Patent sealed.*
- SIBLEY.  
SIBLEY.  
2nd September 1853. 2033. JOHN SIBLEY and THOMAS SIBLEY, of Ashton-under-Lyne, in the County of Lancaster, Machine Makers, for an invention for—"Improvements in machinery or apparatus for cutting discs or circles out of plates or sheets of metal or other substances." *Provisional protection only.*
- ASHTON.  
HARVEY.  
2nd September 1853. 2034. WILLIAM ASHTON, of Manchester, in the County of Lancaster, Machinist, and WILLIAM BROTHERTON HARVEY, of Salford, in the same County, Braid Manufacturer, for an invention for—"Certain improvements in machinery or apparatus for manufacturing braid." *Provisional protection only.*
- JEWISS.  
JEWISS.  
3rd September 1853. 2035. JOHN THOMAS JEWISS and DANIEL JEWISS, both of Horsleydown, Smiths, for an invention for—"An improvement in furnaces." *Provisional protection only.*
- DOBELL.  
3rd September 1853. 2036. EBENEZER DOBELL, of Hastings, in the County of Sussex, Watch Maker, for an invention for—"Improvements in clocks or time-keepers, and parts connected therewith." *Provisional protection only.*



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| WALKER.<br>3rd September 1853.            | 2037. THOMAS WALKER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in rotary engines to be worked by steam or other fluid."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                         |
| NAGLES.<br>3rd September 1853.            | 2038. ALBERT NAGLES, of Ghent, in the Kingdom of Belgium, Chemist, for an invention for—"Certain improvements in machinery or apparatus for washing, bleaching, dunging, and dyeing woven fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                         |
| STICKNEY.<br>3rd September 1853.          | 2039. GAGE STICKNEY, of Hanover Street, Pimlico, in the County of Middlesex, Mechanical Engineer, for an invention for—"An improved construction of blower."<br>— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| STICKNEY.<br>3rd September 1853.          | 2040. GAGE STICKNEY, of Hanover Street, Pimlico, in the County of Middlesex, Mechanical Engineer, for an invention for—"Improved machinery for forging metals."<br>— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                |
| DOYLE.<br>5th September 1853.             | 2041. JOHN DOYLE, of 17, Cambridge Terrace, Paddington, in the County of Middlesex, for an invention for—"The waterproofing of boots and shoes."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                      |
| CLARE.<br>5th September 1853.             | 2042. JOHN CLARE, junior, of Liverpool, in the County Palatine of Lancaster, Produce Broker, for an invention for—"Improvements in the construction of iron houses, vessels, masts, spars, smoke-funnels, boilers, cylinders, beams, and other like structures or articles."<br><i>Letters Patent sealed.</i>                                                                                                |
| SMALLEY.<br>SMIRK.<br>5th September 1853. | 2043. JOHN SMALLEY, of Bishopgate, in the Parish of Wigan, in the County of Lancaster, Accountant, and WASHINGTON SMIRK, of Ince, in the Parish and County aforesaid, Smith, for an invention for—"An improvement in railway-carriage axles."<br><i>Letters Patent sealed.</i>                                                                                                                               |
| JOHNSON.<br>5th September 1853.           | 2044. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of stays or corsets."— <i>A communication from Adolphe Georges Geresme, of Paris, in the Empire of France, Manufacturer.</i><br><i>Provisional protection only.</i>                                                       |
| NEWTON.<br>5th September 1853.            | 2045. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for weaving terry fabrics."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                                                                  |
| NEWTON.<br>5th September 1853.            | 2046. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in breech-loading guns."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                 |
| UPFILL.<br>BROWN.<br>5th September 1853.  | 2047. THOMAS BOLLMANN UPFILL, of Birmingham, in the County of Warwick, Manufacturer, and WILLIAM BROWN, of Birmingham aforesaid, Foreman to the said Thomas Bollmann Upfill, for an invention for—"An improvement or improvements applicable to metallic bedsteads, couches, chairs, and such other articles as are or may be used for sitting, lying, and reclining upon."<br><i>Letters Patent sealed.</i> |
| WRIGHT.<br>5th September 1853.            | 2048. LEMUEL WELLMAN WRIGHT, of Charlford, in the County of Gloucester, for an invention for—"Improvements in reaping and gathering machines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                              |
| CALLES.<br>6th September 1853.            | 2049. ANDRÉ CALLES, of Southwark Square, in the County of Surrey, Mechanician, for an invention for—"Improvements in manufacturing typographic characters."<br><i>Provisional protection only.</i>                                                                                                                                                                                                           |
| KERFOOT.<br>6th September 1853.           | 2050. JOHN KERFOOT, of Lower Darwen, in the County of Lancaster, for an invention for—"Improvements in machinery for spinning cotton or other fibrous substances."<br><i>Provisional protection only.</i>                                                                                                                                                                                                    |
| WILKINSON.<br>6th September 1853.         | 2051. HENRY WILKINSON, of the firm of Messrs. Wilkinson, Brass Foundry, Tottenham Mews, for an invention for—"Improvements in the construction of air-furnaces, parts of which improvements are applicable to other furnaces."<br><i>Letters Patent sealed.</i>                                                                                                                                              |
| DAVIS.<br>RAMSAY.<br>6th September 1853.  | 2052. JAMES DAVIS, of the Low Furness Iron Works, near Ulverstone, in the County of Lancaster, Ironmaster, and ROBERT RAMSAY, of the same place, Engineer and Fitter, for an invention for—"An improved engine to be worked by steam, air, or water."<br><i>Letters Patent sealed.</i>                                                                                                                       |



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| POPE.<br>BUFTON.<br>6th September 1853.       | 2053. THOMAS POPE and EDWARD BUFTON, both of Birmingham, in the County of Warwick, for an invention for—"Improvements in buttons, and which buttons they propose to designate by the name of 'Buffalo buttons.'" <i>Letters Patent</i>                                                                                                              |
| SOMMERVILLE.<br>TWIGG.<br>6th September 1853. | 2054. ALFRED SOMMERVILLE and CHARLES TWIGG, both of Birmingham, in the County of Warwick, for an invention for—"Improvements in penholders, which said improvements are applicable to the manufacture of umbrella and sticks, cornice-poles, and other such like articles." <i>Letters Patent</i>                                                   |
| SMITH.<br>SOMMERVILLE.<br>7th September 1853. | 2055. ISAAC SMITH, of Birmingham, in the County of Warwick, Merchant, for an invention for—"Improvements in metallic pens and penholders." <i>Letters Patent</i>                                                                                                                                                                                    |
| ALSOP.<br>FAIRBURN.<br>7th September 1853.    | 2056. JOSEPH ALSOP, of Huddersfield, Baker, and EDWARD FAIRBURN, of Kirkstall Mills, Mirfield, both in the County of York, for an invention for—"Improvements in baking bread." <i>Letters Patent</i>                                                                                                                                               |
| FLETCHER.<br>PEEL.<br>7th September 1853.     | 2057. JOHN GASKIN FLETCHER, of Accrington, in the County of Lancashire, Warehouseman, and WILLIAM PEEL, of the same place, Weaver, for an invention for—"Improvements in looms for weaving." <i>Provisional protection</i>                                                                                                                          |
| LAW.<br>INGLIS.<br>7th September 1853.        | 2058. DAVID LAW, of Glasgow, in the County of Lanark, North British, and JOHN INGLIS, of the same place, Ironfounders, for an invention for—"Improvements in moulding or shaping metals." <i>Letters Patent</i>                                                                                                                                     |
| SMITH.<br>7th September 1853.                 | 2059. WILLIAM JOSEPH SMITH, of Stretford, in the County of Lancashire, for an invention for—"Certain improvements in buttons or other such fastenings, and in applying or affixing them to wearing apparel." <i>Letters Patent</i>                                                                                                                  |
| GRIMSHAW.<br>ROWLAND.<br>7th September 1853.  | 2060. WESTON GRIMSHAW, of Morsley, County Antrim, Ireland, and ROWLAND, of the same place, for an invention for—"Improvements in the manufacture of bricks." <i>Letters Patent</i>                                                                                                                                                                  |
| ASHTON.<br>7th September 1853.                | 2061. GEORGE EDWARD ASHTON, of the County of Middlesex, Gunmaker, for an invention for—"Converting certain refuse materials into yarn for the manufacture of woven and other fabrics." <i>Provisional protection</i>                                                                                                                                |
| HUSTWAYTE.<br>GIBSON.<br>7th September 1853.  | 2062. BENJAMIN HUSTWAYTE, of Hockley Street, Homerton, in the County of Middlesex, Bricklayer, and RICHARD JOHN PAUL GIBSON, of Upper Beak Street, Hackney, in the same County, Builder, for an invention for—"An improved composition or compositions applicable to the manufacture of bricks, tiles, and moulded articles." <i>Letters Patent</i> |
| PAPE.<br>8th September 1853.                  | 2063. SIMPSON GOY PAPE, 34, Gloucester Crescent, Camden Town, in the County of Middlesex, for an invention for—"Brace ends, being a new suspender for breeches, and drawers." <i>Provisional protection</i>                                                                                                                                         |
| LYNDE.<br>8th September 1853.                 | 2064. JAMES GASCOIGNE LYNDE, junior, of No. 37, Great George Street, City and Liberty of Westminster, Civil Engineer, for an invention for—"An improved governor or self-acting apparatus for regulating the flow of water." <i>Letters Patent</i>                                                                                                  |
| HARRINGTON.<br>8th September 1853.            | 2065. ROBERT HARRINGTON, of Witham, in the County of Essex, Watchmaker, for an invention for—"Improvements in umbrellas and parasols." <i>Letters Patent</i>                                                                                                                                                                                        |
| BRUNTON.<br>9th September 1853.               | 2066. JOHN DICKINSON BRUNTON, of Truro, in the County of Cornwall, Engineer, for an invention for—"An improved wind-guard or chimney-top." <i>Provisional protection</i>                                                                                                                                                                            |
| PETRIE.<br>8th September 1853.                | 2067. JOHN PETRIE, junior, of Rochdale, in the County of Lancashire, Engineer, for an invention for—"Improvements in cans or vessels used for containing oil or other lubricating material to machinery." <i>Provisional protection</i>                                                                                                             |
| COATE.<br>8th September 1853.                 | 2068. JAMES COATE, of No. 19, Marylebone Street, Regent Street, in the County of Middlesex, Brush Manufacturer, for an invention for—"Improvements in the manufacture of nail and hair brushes." <i>Letters Patent</i>                                                                                                                              |
| BURROWS.<br>8th September 1853.               | 2069. JAMES BURROWS, of the Haigh Foundry, near Wigan, in the County of Lancashire, Engineer, for an invention for—"Certain improvements in the construction of rolled metallic plates." <i>Provisional protection</i>                                                                                                                              |
| HALL.<br>8th September 1853.                  | 2070. WILLIAM HALL, of the Colliery, Castlecomer, Engineer, for an invention for—"Improvements in the conversion of peat into charcoal." <i>Letters Patent</i>                                                                                                                                                                                      |



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| FONTAINE MOREAU.<br>9th September 1853.     | 2071. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, France, for an invention for—"Certain improvements in lighting, for consuming the carbon escaping combustion in ordinary flames."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| RADFORD.<br>9th September 1853.             | 2072. JONAS RADFORD, of Cheltenham, in the County of Gloucester, for an invention for—"Improvements in clocks or time-keepers." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| GRANT.<br>DOHERTY.<br>9th September 1853.   | 2073. PHILIP GRANT, of the City of Manchester, in the County of Lancaster, Letterpress Printer, and JOHN DOHERTY, of the same place, for an invention for—"Improvements in the mode or method of cutting and finishing brass rule and wood reglet used in the art or process of letterpress printing and other similar purposes, and in the machinery or apparatus employed therein." <i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| JOHNSON.<br>9th September 1853.             | 2074. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"An improved apparatus for facilitating the acquirement of the art of reading."— <i>A communication from Messieurs Nicolas Chéron and Florimond Nicolas Tallempein, of Paris, in the Empire of France, Manufacturers.</i> <i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| LUMBY.<br>SUGDEN.<br>9th September 1853.    | 2075. EDWIN LUMBY, of Halifax, in the County of York, Ironmonger, and ZACCHÆUS SUGDEN, of Halifax aforesaid, Tin-plate Worker, for an invention for—"Improvements in needles or wires used in the manufacture of carpets, looped pile fabrics, and velvets." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| PARNELL.<br>9th September 1853.             | 2076. MICHAEL LEOPOLD PARNELL, of the Strand, in the County of Middlesex, Lock Manufacturer, for an invention for—"Improvements in the construction of locks." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| MARTIN.<br>9th September 1853.              | 2077. JAMES MARTIN, of Faversham, in the County of Kent, Watchmaker, for an invention for—"Improvements in locks." <i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| DOYLE.<br>9th September 1853.               | 2078. JOHN DOYLE, of 17, Cambridge Terrace, Paddington, in the County of Middlesex, for an invention for—"The better ventilation of field tents and marquees." <i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| BELL.<br>9th September 1853.                | 2079. ISAAC LOWTHIAN BELL, of the Washington Chemical Works, Newcastle-upon-Tyne, for an invention for—"Improvements in the manufacture of sulphuric acid." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ASKEW.<br>9th September 1853.               | 2080. CHARLES ASKEW, of 27½, Charles Street, Hampstead Road, in the County of Middlesex, for an invention for—"Improvements in baths." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| DU MOTAY.<br>DUYLOS.<br>9th September 1853. | 2081. CYPRIEN MARIE TESSIÉ DU MOTAY and EDMOND LOUIS DUFLOS, of No. 2, Rue Drouot, in the City of Paris, in France, Chemist and Merchant, for an invention for—"Improvements in the mode of bleaching fibrous and other substances." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| AMORY.<br>9th September 1853.               | 2082. JONATHAN AMORY, of Boston, United States of America, for an invention for—"Improvements in furnaces." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| CHILDS.<br>9th September 1853.              | 2083. JAMES CHILDS, of Gilston Road, Brompton, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of materials to render them suitable as substitutes for millboard and such like uses." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| WOODHEAD.<br>9th September 1853.            | 2084. HENRY WOODHEAD, of the Borough of Kingston-upon-Hull, Cotton-Spinner, for an invention for—"Improvements in spinning-machinery." <i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| GOVIN.<br>9th September 1853.               | 2085. ERNEST ALEXANDER GOVIN, of 110, Avenue de Clichy, Batignolles, Paris, in the département de la Seine, France, for an invention for—"Improvements in looms or weaving-machines applicable to the weaving of cotton, silk, flax, hemp, wool, or any other fibrous substances, by means of which improvements the warp threads are unwound more regularly from the warp roller, and the cloth or tissue taken up with more regularity at the same time, without straining the warp thread, and by means of a peculiar motion in releasing the tension on the warp thread he is enabled to give an elastic or back motion to the warp, which permits of all inelastic fibrous substances to be woven upon the power-loom; and in case the weft thread should break, the loom can continue in motion without the cloth roller continuing to take up, or without detriment to the tissue." <i>Letters Patent sealed.</i> |



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| NEWTON.<br>9th September 1853.             | 2086. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved manufacture of gas-burner and gas-regulator."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                        |
| DREW.<br>BAYLISS.<br>9th September 1853.   | 2087. ROBERT DREW, of the firm of Drew Nephew and Co., of Bath, in the County of Somerset, Stay Manufacturers, and JOHN BAYLISS, of Birmingham, in the County of Warwick, Rifle Implement Manufacturer, for an invention for—"Improvements in stay and other like fastenings."<br><i>Letters Patent sealed.</i> |
| FORSTER.<br>10th September 1853.           | 2088. WILLIAM CHARLTON FORSTER, of No. 84, Hatton Garden, Holborn, in the County of Middlesex, Gentleman, for an invention for—"An improved manure."<br><i>Provisional protection only.</i>                                                                                                                     |
| WARNER.<br>10th September 1853.            | 2089. ARTHUR WARNER, of 34, Dorset Place, Dorset Square, London, in the County of Middlesex, for an invention for—"The application of the fibrous part of the palm tree and leaf to arts and manufactures."<br><i>Letters Patent sealed.</i>                                                                    |
| BRUNTON.<br>10th September 1853.           | 2090. JOHN DICKINSON BRUNTON, of Trouro, in the County of Cornwall, Engineer, for an invention for—"An improved apparatus for separating gold or silver from their ores or other matters by amalgamation."<br><i>Provisional protection only.</i>                                                               |
| JONES.<br>10th September 1853.             | 2091. STOPFORD THOMAS JONES, of 11, Trigon Terrace, Clapham Road, for an invention for—"Improvements in propelling floating vessels, and in the mode of applying the propellers."<br><i>Provisional protection only.</i>                                                                                        |
| GRIST.<br>10th September 1853.             | 2092. JOHN GRIST, of Islington, in the County of Middlesex, Engineer, for an invention for—"An improved stave jointing or shaping machine."<br><i>Letters Patent sealed.</i>                                                                                                                                    |
| SCRAGG.<br>10th September 1853.            | 2093. EDWIN SCRAGG, of Buglawton, in the County of Cheshire, Engineer, for an invention for—"Improvements in steam-engines."<br><i>Provisional protection only.</i>                                                                                                                                             |
| LEYLAND.<br>10th September 1853.           | 2094. EDMUND LEYLAND, of Saint Helens, in the County of Lancashire, Builder, for an invention for—"Improvements in apparatus for the manufacture of sulphuric acid."<br><i>Letters Patent sealed.</i>                                                                                                           |
| GILBERT.<br>10th September 1853.           | 2095. THOMAS WILLIAM GILBERT, of Limehouse, Sail-maker, for an invention for—"Improvements in sewing sails and other articles."<br><i>Letters Patent sealed.</i>                                                                                                                                                |
| JACOB.<br>10th September 1853.             | 2096. CHARLES JACOB, of 6, Ingram Court, Fenchurch Street, for an invention for—"Improvements in the manufacture of lime."<br><i>Provisional protection only.</i>                                                                                                                                               |
| TRONSON.<br>10th September 1853.           | 2097. ROBERT TRONSON, of the Chamber of Commerce, Liverpool, for an invention for—"Improvements in ventilating and preventing spontaneous combustion in ships and other vessels laden with coal, culm, or cinders."<br><i>Letters Patent sealed.</i>                                                            |
| METCALFE.<br>10th September 1853.          | 2098. THOMAS METCALFE, of 19, High Street, Camden Town, in the County of Middlesex, for an invention for—"Improvements in portable chairs and tables."<br><i>Letters Patent sealed.</i>                                                                                                                         |
| WEBSTER.<br>10th September 1853.           | 2099. JOHN WEBSTER, of Ipswich, for an invention for—"Improvements in the treatment of fatty and oily matters, to render them suitable for the manufacture of candles."<br><i>Provisional protection only.</i>                                                                                                  |
| WARD.<br>CAWLEY.<br>10th September 1853.   | 2100. JOHN WARD, of Saville House, Leicester Square, and EDWARD CAWLEY, of 24, Stanley Street, Chelsea, for an invention for—"Improvements in chairs, couches, and tables."<br><i>Letters Patent sealed.</i>                                                                                                    |
| MARKS.<br>HOWARTH.<br>10th September 1853. | 2101. JOSEPH MARKS and JOHN HOWARTH, of the State of Massachusetts, of the United States of America, for an invention for—"Certain new and useful improvements in machinery or apparatus for operating the brakes of a train of railway-carriages."<br><i>Letters Patent sealed.</i>                            |
| CHACK.<br>10th September 1853.             | 2102. JULES FRANÇOIS CHACK, of Castle Street, in the City of London, for an invention for—"Improvements in machinery for cutting veneers."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                      |
| WEILD.<br>12th September 1853.             | 2103. WILLIAM WEILD, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in lathes and in apparatus connected therewith for cutting, turning, or boring wood, metal, or other substances."<br><i>Letters Patent sealed.</i>                                     |



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| CHILD.<br>WILSON.<br>12th September 1853.        | 2104. JOHN WRIGHT CHILD, of Halifax, in the County of York, and ROBERT WILSON, of Low Moor Iron Works, in the same County, Engineers, for an invention for—"Improvements in valves and pistons." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                              |
| JOHNSON.<br>12th September 1853.                 | 2105. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the transmission of motive-power, being an improved substitute for 'the crank.'"— <i>A communication from Jean Lassere, Mechanic, and Edmund Heusschen, Engineer, both of Paris, in the Empire of France.</i> <i>Provisional protection only.</i>                                                                                        |
| TURNER.<br>12th September 1853.                  | 2106. EDWARD RUSH TURNER, of the firm of "E. R. Turner & Co." of St. Peter's Foundry, Ipswich, in the County of Suffolk, Engineers, for an invention for—"Improvements in grinding-mills for farm and other purposes." <i>Provisional protection only.</i>                                                                                                                                                                                                                                                  |
| LILLEY.<br>12th September 1853.                  | 2107. JOHN LILLEY, junr., of Jamaica Terrace, Limehouse, in the County of Middlesex, Nautical and Mathematical Instrument Maker, for an invention for—"Improvements in mariners' compasses." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                  |
| MAUDSLAY.<br>12th September 1853.                | 2108. JOSEPH MAUDSLAY, of Lambeth, in the County of Surrey, Engineer, for an invention for—"Improvements in boilers and furnaces for generating steam." <i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                                                                                                                                                               |
| ROBISON.<br>JACKSON.<br>12th September 1853.     | 2109. JOHN ROBISON, of Coleman Street, in the City of London, Merchant, and WILLIAM JACKSON, of Leman Street, in the County of Middlesex, Engineer, for an invention for—"Improvements in furnaces for effecting the consumption of smoke." <i>Provisional protection only.</i>                                                                                                                                                                                                                             |
| NEWTON.<br>12th September 1853.                  | 2110. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved manufacture of printing blocks and cylinders."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                      |
| BROCOT.<br>12th September 1853.                  | 2111. LOUIS ACHILLE BROCOT, of Paris, in the Empire of France, Clock Manufacturer, for an invention for—"An improved construction of astronomical calendar." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                  |
| CANNON.<br>12th September 1853.                  | 2112. CHARLES CANNON, of No. 27, Dance Street, in Liverpool, in the County of Lancaster, Chairmaker, for an invention for—"Improved machinery for obtaining motive-power." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                    |
| NEWTON.<br>12th September 1853                   | 2113. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improved machinery for crushing and grinding mineral and other substances."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                                                                                                     |
| EWBANK.<br>13th September 1853.                  | 2114. THOMAS HENRY EWBANK, of South Square, Gray's Inn, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of terry or looped fabrics, and in machinery for producing the same." <i>Provisional protection only.</i>                                                                                                                                                                                                                                              |
| ADAMS.<br>GEE.<br>DAVIS.<br>13th September 1853. | 2115. CHARLES FREDERICK ADAMS and WILLIAM GEE, of 23, Middle Street, Cloth Fair, London, and GEORGE DAVIS, of 8, Bath Street, Newgate Street, London, for an invention for—"The application of the processes of lithographic and zincographic printing of words, patterns, designs, and marks on metal, glass, wood, and other hard and unyielding substances, in sheets, slabs, or flat pieces, with or without the intervention of paper or other flexible material." <i>Provisional protection only.</i> |
| DUBBS.<br>13th September 1853.                   | 2116. HENRY DUBBS, of Vulcan Foundry, near Warrington, in the County of Lancaster, Engineer, for an invention for—"Improvements in the method of forging or manufacturing iron and steel." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                    |
| SINGTON.<br>13th September 1853.                 | 2117. ADOLPHUS SINGTON, of Manchester, in the County of Lancaster, Merchant, for an invention for—"Certain improvements in machinery or apparatus for grinding or setting 'doctors' used in calico and other similar printing-machinery."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                                                                                            |
| ALLAN.<br>13th September 1853.                   | 2118. ALEXANDER ALLAN, of Crewe, in the County of Chester, Engineer, for an invention for—"Improvements in locomotive and other boilers for generating steam." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                |



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| DICKSON.<br>13th September 1853.                   | 2119. JAMES HILL DICKSON, of Evelyn Street, Lower Road, Deptford, in the County of Kent, Flax Manufacturer and Flax Machinist, for an invention for—"Improvements in machinery or apparatus for the preparation of flax and similar fibrous material."<br><i>Letters Patent sealed.</i>                                                                 |
| BEHRENS.<br>13th September 1853.                   | 2120. JACOB BEHRENS, of Bradford, in the County of York, Merchant, for an invention for—"Improvements in the manufacture of zinc."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                            |
| SMITH.<br>13th September 1853.                     | 2121. WILLIAM SMITH, of Little Woolstone, in the County of Bucks, Farmer, for an invention for—"Improvements in implements for tilling and preparing land for crops."<br><i>Letters Patent sealed.</i>                                                                                                                                                  |
| GODDARD.<br>13th September 1853.                   | 2122. EMERSON GODDARD, of New York, in the County of New York, and State of N. York, U. S. A., for an invention for—"Improvements in machinery for cutting stone."<br><i>Letters Patent sealed.</i>                                                                                                                                                     |
| POOLE.<br>13th September 1853.                     | 2123. MOSES POOLE, of the Avenue Road, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in apparatus and means for removing matters or heat from currents of air, gasses, or vapours, or from liquids, and for communicating matters or heat to the same."— <i>A communication.</i><br><i>Letters Patent sealed.</i>       |
| LAMING.<br>13th September 1853.                    | 2124. RICHARD LAMING, of Millwall, Poplar, in the County of Middlesex, Chemist, for an invention for—"An improved process for purifying gas."<br><i>Letters Patent sealed.</i>                                                                                                                                                                          |
| WAKEFIELD.<br>BASKERVILLE.<br>14th September 1853. | 2125. JOHN WAKEFIELD, of Inchicore Works, in the County of Dublin, Engineer, and JAMES BASKERVILLE, of the same place, Engineer, for an invention for—"Improvements in and applicable to valves for reciprocating-engines driven by steam or other elastic fluid."<br><i>Letters Patent sealed.</i>                                                     |
| WILSON.<br>14th September 1853.                    | 2126. JOHN WILSON, of the firm of Messrs. Heald, Wilsons, and Company, of the City of Manchester, Calico Printers, for an invention for—"Improvements in and applicable to machines for printing fabrics."<br><i>Letters Patent sealed.</i>                                                                                                             |
| WEBLEY.<br>14th September 1853.                    | 2127. PHILIP WEBLEY, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in repeating pistols and other fire-arms."<br><i>Letters Patent sealed.</i>                                                                                                                                                              |
| TIMMIS.<br>14th September 1853.                    | 2128. JOHN TIMMIS, of the Borough of Stafford, in the County of Stafford, Surveyor, for an invention for—"Improvements in safety-valves for boilers."<br><i>Letters Patent sealed.</i>                                                                                                                                                                  |
| WALLACE.<br>GALLOWAY.<br>14th September 1853.      | 2129. ALEXANDER WALLACE, of Glasgow, in the County of Lanark, North Britain, and GEORGE GALLOWAY, of the same place, Smiths, for an invention for—"Improvements in the construction of portable articles of furniture."<br><i>Letters Patent sealed.</i>                                                                                                |
| COLLINS.<br>14th September 1853.                   | 2130. JOHN JONATHAN GEORGE COLLINS, of Philadelphia, in the United States of America, Engineer, for an invention for—"Certain improvements in steam-engines."<br><i>Provisional protection only.</i>                                                                                                                                                    |
| JOHNSON.<br>14th September 1853.                   | 2131. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in sewing machines."— <i>A communication from Mesdames Adrienne Elisabeth Figuier and Euphrasie Chérault, of Paris, in the Empire of France.</i><br><i>Provisional protection only.</i> |
| HIGGIN.<br>14th September 1853.                    | 2132. JAMES HIGGIN, of the City of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in burning certain fluids for the purpose of obtaining heat."<br><i>Letters Patent sealed.</i>                                                                                                                     |
| HOOK.<br>14th September 1853.                      | 2133. CHARLES TOWNSEND HOOK, of Tovil House, Maidstone, in the County of Kent, for an invention for—"Improvements in the manufacture of pulp."<br><i>Letters Patent sealed.</i>                                                                                                                                                                         |
| KAY.<br>14th September 1853.                       | 2134. RICHARD DUGDALE KAY, of Bank Terrace, Accrington, for an invention for—"Improvements in block-printing."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                         |



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| ICELY.<br>16th September 1853.                 | 2153. WILLIAM SHELBOURNE ICELY, of Bromley, in the County of Middlesex, for an invention for—"Improvements in mechanical telegraphs."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                 |
| MEYER.<br>16th September 1853.                 | 2154. HENRY MEYER, of the City of Manchester, Engineer, for an invention for—"Improvements in looms for weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                     |
| CARRON.<br>16th September 1853.                | 2155. WILLIAM CARRON, of Birmingham, in the County of Warwick, Machinist, for an invention for—"An improvement or improvements in signaling or communicating intelligence."<br><i>Letters Patent sealed.</i>                                                                                                                                           |
| NEWTON.<br>16th September 1853.                | 2156. FRANCIS BIRKIN NEWTON, of the City of Manchester, in the County of Lancaster, Tailor, for an invention for—"Improvements in the mode or method of cutting and making up garments so as partially to dispense with seams or sewing."<br><i>Provisional protection only.</i>                                                                       |
| BARCLAY.<br>16th September 1853.               | 2157. ANDREW BARCLAY, of Kilmarnock, in the County of Ayr, North Britain, Engineer, for an invention for—"Improvements in arranging and working mining-engines."<br><i>Provisional protection only.</i>                                                                                                                                                |
| BARCLAY.<br>16th September 1853.               | 2158. ANDREW BARCLAY, of Kilmarnock, in the County of Ayr, North Britain, Engineer, for an invention for—"Improvements in lubricating shafts or revolving metallic surfaces."<br><i>Provisional protection only.</i>                                                                                                                                   |
| THOMSON.<br>LOCKERBIE.<br>16th September 1853. | 2159. ALEXANDER THOMSON, of Glasgow, in the County of Lanark, North Britain, Brick Builder, and DAVID LOCKERBIE of the same place, Manager, for an invention for—"improvements in kilns for baking and burning articles in earthenware."<br><i>Letters Patent sealed.</i>                                                                              |
| ADCOCK.<br>16th September 1853.                | 2160. JOHN ADCOCK, of Marlborough Road, Dalston, in the County of Middlesex, Cigar Manufacturer, for an invention for—"Improved apparatus for measuring the distance travelled by vehicles."<br><i>Letters Patent sealed.</i>                                                                                                                          |
| WEATHERDON.<br>HOOPER.<br>16th September 1853. | 2161. BALDWIN FULFORD WEATHERDON, of Chancery Lane, in the County of Middlesex, and MATTHEW SLADE HOOPER, of Sydenham, in the County of Kent, for an invention for—"Certain improvements in railway signals."<br><i>Letters Patent sealed.</i>                                                                                                         |
| LILLY.<br>17th September 1853.                 | 2162. THOMAS EDWARDS LILLY, of Birmingham, in the County of Warwick, Coach Builder, for an invention for—"Improvements in certain kinds of carriages."<br><i>Provisional protection only.</i>                                                                                                                                                          |
| BAKER.<br>17th September 1853.                 | 2163. ARTHUR JOHN BAKER, Architect, of 51, Burton Crescent, London, for an invention for—"Strengthening vessels of timber and iron."<br><i>Provisional protection only.</i>                                                                                                                                                                            |
| BURTON.<br>17th September 1853.                | 2164. JONATHAN BURTON, of Crawshaw Booth, in the County of Lancaster, Manager, for an invention for—"Improvements in shuttles for weaving, the whole or part of which are applicable to skewers used in winding and reeling machines."<br><i>Letters Patent sealed.</i>                                                                                |
| LITHERLAND.<br>PICTON.<br>17th September 1853. | 2165. RICHARD LITHERLAND, of Liverpool, in the County of Lancaster, Clock-maker, and THOMAS PICTON, of Toxteth Park, near Liverpool aforesaid, Wheelwright, for an invention for—"An improved mode of manufacturing brushes, and in machinery for applying the same to the purposes of polishing and cleaning."<br><i>Provisional protection only.</i> |
| NICKELS.<br>SELBY.<br>17th September 1853.     | 2166. CHRISTOPHER NICKELS, of York Road, Lambeth, and RALPH SELBY, of York Road aforesaid, for an invention for—"Improvements in the manufacture of flexible tubes and bands, and in covering wire."<br><i>Letters Patent sealed.</i>                                                                                                                  |
| JENNINGS.<br>17th September 1853.              | 2167. HENRY CONSTANTINE JENNINGS, of 8, Great Tower Street, in the City of London, for an invention for—"Improvements in treating and bleaching resinous substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                 |
| DE BODE.<br>17th September 1853.               | 2168. BARON HENRY DE BODE, of 8, Albert Street, Camden Road, in the County of Middlesex, for an invention for—"Improvements in the manufacture of wheels."<br><i>Letters Patent sealed.</i>                                                                                                                                                            |
| BROOMAN.<br>17th September 1853.               | 2169. RICHARD ARCHIBALD BROOMAN, of the firm of Robertson, Brooman, and Company, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the manufacture of soap and saponaceous compounds."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                        |



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| THOMAS.<br>19th September 1853.                          | 2170. EDWARD THOMAS, of Belfast, in the Kingdom of Ireland, Power Loom Factory Manager, for an invention for—"An improvement in the construction of looms for weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                 |
| COLLINS.<br>19th September 1853.                         | 2171. CHARLES COLLINS, of the City and County of Hartford, in the State of Connecticut and United States of America, Manufacturer, for an invention for—"The manufacture by machinery of tubes from leather or other suitable flexible substance, chiefly for covering the drawing rolls of spinning-machinery, but also applicable to other purposes."<br><i>Letters Patent sealed.</i> |
| ANDERSON.<br>19th September 1853.                        | 2172. WILLIAM LANPHIER ANDERSON, of Norwood, in the County of Surrey, Gentleman, for an invention for—"Improvements in propelling ships and other vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                             |
| STEPHENS.<br>19th September 1853.                        | 2173. JOHN STEPHENS, of Richmond, in the County of Surrey, Esquire, for an invention for—"Improvements in obtaining motive power by the aid of air, steam, and other expansive gases."<br><i>Provisional protection only.</i>                                                                                                                                                            |
| RESELL.<br>19th September 1853.                          | 2174. THOMAS RESELL, of the Strand, in the City of Westminster, Chronometer Maker, for an invention for—"Improvements in opening and closing ventilating louvres."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                      |
| WALKER.<br>20th September 1853.                          | 2175. SAMUEL WALKER, junior, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"New or improved machinery for manufacturing thimbles."<br><i>Provisional protection only.</i>                                                                                                                                                                                  |
| FLETCHER.<br>SMITH.<br>20th September 1853.              | 2176. ROBERT FLETCHER, of Birmingham, in the County of Warwick, Gunmaker, and JOHN SMITH, of Birmingham aforesaid, Gunmaker, for an invention for—"Improvements in fire-arms and discharging the same."<br><i>Provisional protection only.</i>                                                                                                                                           |
| WALKER.<br>20th September 1853.                          | 2177. HENRY WALKER, of Gresham Street, in the City of London, Manufacturer, for an invention for—"Improvements in the modes or means of stopping or retarding vehicles used on railways."<br><i>Letters Patent sealed.</i>                                                                                                                                                               |
| BELOUD. BELOUD.<br>GUYATT.<br>20th September 1853.       | 2178. JOHN LOUIS BELOUD, SAMUEL CAMILE BELOUD, and GEORGE GUYATT, all of Greek Street, Soho, in the County of Middlesex, Cutlers and Surgical Instrument Makers, for an invention for—"Improvements in shears."<br><i>Provisional protection only.</i>                                                                                                                                   |
| SERVAN.<br>20th September 1853.                          | 2179. ARISTIDE MICHEL SERVAN, of Philpot Lane, in the City of London, for an invention for—"Improvements in distilling fatty and oily matters."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                         |
| POOLE.<br>20th September 1853.                           | 2180. MOSES POOLE, of Avenue Road, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in life-preservers."<br><i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                        |
| POTTS.<br>20th September 1853.                           | 2181. FERDINAND POTTS, of Birmingham, in the County of Warwick, Tube Manufacturer, for an invention for—"Improvements in the manufacture of taper tubes, and in the apparatus connected therewith."<br><i>Letters Patent sealed.</i>                                                                                                                                                     |
| STOCKIL.<br>20th September 1853.                         | 2182. WILLIAM STOCKIL, of Long Lane, in the County of Surrey, Currier, for an invention for—"A new or improved method of blocking leather used in the manufacture of boots."<br><i>Letters Patent sealed.</i>                                                                                                                                                                            |
| NEAL.<br>JERROLD.<br>MONTGOMERY.<br>20th September 1853. | 2183. STEPHEN NEAL, of Manchester, in the County of Lancaster, Mechanical Engineer, WILLIAM BLANCHARD JERROLD, of the Inner Temple, Gentleman, and CONRAD MONTGOMERY, of Cornhill, in the City of London, Gentleman, for an invention for—"Improvements in machinery for the manufacture of casks and barrels."<br><i>A communication.</i><br><i>Provisional protection only.</i>        |
| NEEDHAM.<br>20th September 1853.                         | 2184. HENRY NEEDHAM, of Wardour Street, in the County of Middlesex, Gunmaker, for an invention for—"Improvements in revolving fire-arms."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                               |
| GIBBS.<br>20th September 1853.                           | 2185. JOSEPH GIBBS, of Abingdon Street, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in the treatment of minerals for the purpose of separating impurities therefrom."<br><i>Letters Patent sealed.</i>                                                                                                                                                |
| PEABODY.<br>21st September 1853.                         | 2186. GEORGE PEABODY, of Wornford Court, in the City of London, Merchant, for an invention for—"Improved machinery for dressing and warping yarns."<br><i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                          |



- NEWTON.  
21st September 1853. 2187. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved method of forming seams and ornamental stitching, and in machinery for effecting such operation, part of which machinery is applicable to the forming of other seams and stitches."—*A communication.* *Letters Patent sealed.*
- NEWTON.  
21st September 1853. 2188. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved mode of constructing steam-boilers, applicable also in part to the construction of condensers."—*A communication.* *Letters Patent sealed.*
- SMEDLEY.  
22nd September 1853. 2189. THOMAS SMEDLEY, of Holywell, in the County of Flint, Gentleman, for an invention for—"An improved railway-train signal communicating between the guard and engine driver." *Provisional protection only.*
- BALDWIN.  
22nd September 1853. 2190. JAMES BALDWIN, of Birmingham, in the County of Warwick, Paper Manufacturer, for an invention for—"Improvements in the making of paper-bags." *Complete specification; Letters Patent sealed.*
- CALVERT.  
22nd September 1853. 2191. FREDERICK CRACE CALVERT, of the City of Manchester, Analytical Chemist, for an invention for—"Certain improved processes for separating emery from other matters." *Letters Patent sealed.*
- ARROWSMITH.  
NEWHOUSE.  
22nd September 1853. 2192. PETER ROTHWELL ARROWSMITH, of Bolton-le-Moors, in the County of Lancaster, and JAMES NEWHOUSE, of the same place, Overlooker, for an invention for—"Certain improvements in machines for spinning and doubling." *Letters Patent sealed.*
- OLDFIELD.  
22nd September 1853. 2193. EDWARD OLDFIELD, of the firm of Messieurs Oddy, Robinson, and Company, of Salford, in the County of Lancaster, Machine Makers, for an invention for—"Certain improvements in machinery for spinning and doubling." *Letters Patent sealed.*
- WALKER.  
22nd September 1853. 2194. THOMAS WEST WALKER, of Hanley, in the County of Stafford, Potters' Manager, for an invention for—"Certain improvements in the manufacture of crates made of wood for the use of potters." *Letters Patent sealed.*
- WHITE.  
22nd September 1853. 2195. GEORGE WHITE, of No. 5, Laurence Pountney Lane, in the City of London, Agent, for an invention for—"An improvement in paddle-wheels."—*A communication.* *Provisional protection only.*
- BENETFINK.  
22nd September 1853. 2196. SAMUEL ALEXANDER BENETFINK, of the firm of Benetfink and Company, of Cheapside, in the City of London, Ironmongers, for an invention for—"An improved construction of coal-box." *Letters Patent sealed.*
- LEETCH.  
23rd September 1853. 2197. JAMES LEETCH, of Birmingham, in the County of Warwick, Gunmaker, for an invention for—"An improved method of constructing breech-loading fire-arms." *Letters Patent sealed.*
- ALEXANDER.  
23rd September 1853. 2198. CHARLES ALEXANDER, of 373, Albany Road, Camberwell, in the County of Surrey, for an invention for—"A certain manner of preparing marquetry and all other kinds of inlaid work in veneers of various thicknesses, and for fixing the same to walls and ceilings of whatever kind, and in or upon floors of wood, stone, or metal, and for rendering such floors water and fire proof." *Letters Patent sealed.*
- BELLFORD.  
23rd September 1853. 2199. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn (City), London, Patent Agent, for an invention for—"The application of the extract of the pine and other trees of the fir tribe to dyeing and coloring purposes."—*A communication from Nicolas Philibert Guinnon, of Lyons, in the Empire of France.* *Provisional protection only.*
- VARVILL.  
23rd September 1853. 2200. ROBERT VARVILL, of No. 30, High Ousegate, York, Wholesale Ironmonger, for an invention for—"An improved morticing machine." *Letters Patent sealed.*
- DANTEC.  
23rd September 1853. 2201. WILLIAM DANTEC, of 5, New Quay, Liverpool, for an invention for—"Improvements in purifying water." *Provisional protection only.*
- JONES.  
24th September 1853. 2202. JAMES GRAFTON JONES, of Islington, in the County of Middlesex, Engineer, for an invention for—"Certain improvements in the means of conveying signals or intelligence from one part of a railway-train to another." *Letters Patent sealed.*



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| TUCKER.<br>24th September 1853.                    | 2203. HIRAM TUCKER, of the State of Massachusetts, of the United States of America, for an invention for—"A new and useful improvement in the art or process of applying colors to a surface by means of a liquid." <i>Letters Patent sealed.</i>                                                                                                                                                                                                               |
| DALGETY.<br>24th September 1853.                   | 2204. ALEXANDER DALGETY, of 76, Florence Road, Deptford, in the County of Kent, for an invention for—"Improvements in lathes." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                    |
| FARMER.<br>24th September 1853.                    | 2205. WILLIAM FARMER, of Fulham Brewery, High Street, Fulham, for an invention for—"Improvements in apparatus for preserving provisions." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                         |
| AUSTIN.<br>24th September 1853.                    | 2206. CHARLES EDWARD AUSTIN, of Rookwoods, Stroud, in the County of Gloucester, Civil Engineer, for an invention for—"An improved reaping, gathering, and binding machine." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                       |
| MAITLAND.<br>GORRIE.<br>24th September 1853.       | 2207. CHARLES MAITLAND, of Alloa, in the County of Clackmannan, North Britain, Brewer, and WILLIAM GORRIE, of Rosemains, Cranston, in the County of Midlothian, North Britain, Factor, for an invention for—"Improvements in apparatus for heating water or other liquids." <i>Letters Patent sealed.</i>                                                                                                                                                       |
| SMITH.<br>26th September 1853.                     | 2208. JAMES SMITH, of Law Hill, in the County of Perth, Scotland, Veterinary Surgeon, for an invention for—"Improvements in scythes." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                             |
| STANSBURY.<br>26th September 1853.                 | 2209. CHARLES FREDERICK STANSBURY, of Cornhill, in the City of London, Patent Agent, for an invention for—"A new and useful method of converting fine coal into solid lumps." <i>Complete specification; Protection for SIX months only.</i>                                                                                                                                                                                                                    |
| ELLISDON.<br>26th September 1853.                  | 2210. JOSEPH ELLISDON, of London, Designer and Cabinet Maker, for an invention for—"Improvements in chairs whereby they are rendered more portable, and can be converted into other useful articles of household furniture." <i>Letters Patent sealed.</i>                                                                                                                                                                                                      |
| WINTER.<br>26th September 1853.                    | 2211. HENRY WINTER, of Castle Street, Holborn, London, for an invention for—"An improvement in trousers to supersede the use of braces, which improvement is applicable to other articles of apparel." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                            |
| BIDDELL.<br>26th September 1853.                   | 2212. WILLIAM ADOLPHUS BIDDELL, of Great Sutton Street, in the County of Middlesex, Brass Founder, for an invention for—"Improvements in alarums and signals to be used in or on railways, ships, houses, buildings, plantations, or other places, for the purpose of giving audible or visible signal in cases of danger or alarm." <i>Provisional protection only.</i>                                                                                        |
| CLOSSMANN.<br>26th September 1853.                 | 2213. FRANCIS FREDERICK CLOSSMANN, of 16A, Park Lane, Hyde Park, in the County of Middlesex, Gentleman, for an invention for—"The production and application of certain materials to be employed in the manufacture of textile fabrics and for other purposes." <i>Letters Patent sealed.</i>                                                                                                                                                                   |
| POPPLE.<br>27th September 1853.                    | 2214. ROBERT POPPLE, of Beverley, in the County of York, Colour Manufacturer, for an invention for—"Improvements in machinery for slubbing, roving, and spinning cotton and other fibrous substances." <i>Provisional protection only.</i>                                                                                                                                                                                                                      |
| CALLAN.<br>27th September 1853.                    | 2215. NICHOLAS CALLAN, of the R. C. College, Maynooth, in the County of Kildare, Ireland, for an invention for—"A new mode of protecting iron of every kind against the action of the weather, of rain, river, spring, and sea water, so that iron thus protected may be used for roofing for cisterns, pipes, gutters, window frames, telegraphic wires for marine and various other purposes." <i>Complete specification; Protection for SIX months only.</i> |
| SHARP.<br>HILL.<br>MARTIN.<br>27th September 1853. | 2216. WILLIAM PRIOR SHARP, of the City of Manchester, Engineer, JOHN HILL, the younger, of the same place, Manager, and WILLIAM MARTIN, of the same place, Manager, for an invention for—"Improvements in machinery for spinning and doubling cotton and other fibrous substances." <i>Letters Patent sealed.</i>                                                                                                                                               |
| BURY.<br>GREEN.<br>27th September 1853.            | 2217. ISAAC BURY, of Lower Mosley Street, in the City of Manchester, in the County of Lancaster, Embosser and Finisher, and WILLIAM GREEN, of Islington, in the County of Middlesex, Engineer, for an invention for—"Improvements in treating, stretching, or finishing textile fabrics, and in machinery or apparatus for effecting the same." <i>Letters Patent sealed.</i>                                                                                   |



- BRISCO.  
HORSMAN.  
27th September 1853.
2218. ROBERT BRISCO, of Low Mill House, in the Parish of Saint Bees, in the County of Cumberland, Esquire, and PETER SWIRES HORSMAN, of the Parish of Saint John's, Beckermeth, in the same county, Gentleman, for an invention for—"Certain improvements in the preparation of flax and other vegetable fibrous substances."  
*Letters Patent sealed.*
- POOLE.  
28th September 1853.
2219. MOSES POOLE, of Avenue Road, Regent's Park, in the County of Middlesex, Esquire, for an invention for—"Improvements in the manufacture of pulp for paper makers."  
*A communication. Letters Patent sealed.*
- GIRARD.  
28th September 1853.
2220. LOUIS DOMINIQUE GIRARD, Civil Engineer, of Paris, in the French Empire, for an invention for—"Certain improvements in hydraulic engines."  
*Letters Patent sealed.*
- BARSHAM.  
28th September 1853.
2221. JOHN BARSHAM, of Kingston-upon-Thames, in the County of Surrey, for an invention for—"Improvements in the manufacture of bricks, tiles, and blocks."  
*Letters Patent sealed.*
- JOHNSON.  
28th September 1853.
2222. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery or apparatus for cutting paper."  
*A communication from Monsieur Porier, of Paris, in the Empire of France, Mechanical Engineer. Letters Patent sealed.*
- HICKSON.  
28th September 1853.
2223. WILLIAM HICKSON, of Carlisle, in the County of Cumberland, Gentleman, for an invention for—"Improvements in machinery for the manufacture and packing of bread or biscuits."  
*Provisional protection only.*
- VAN-WAESBERGHE.  
28th September 1853.
2224. JOSEPH FERMONT VAN-WAESBERGHE, of Lokeren, in the Kingdom of Belgium, for an invention for—"The improved manufacture of artificial vinegar."  
*Letters Patent sealed; no specification filed.*
- NEWTON.  
28th September 1853.
2225. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for cutting metal or other substances."  
*A communication. Letters Patent sealed.*
- ASKIE.  
28th September 1853.
2226. THOMAS ASKIE, of Little Britain, in the City of London, Pattern Maker, for an invention for—"Improvements in the construction of churns, which improvements are also applicable to other agitating or stirring apparatus."  
*Provisional protection only.*
- LABAT.  
28th September 1853.
2227. JEAN ALEXANDRE LABAT, junior, of Bordeaux, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"An Improved system of stoppering vessels and bottles."  
*Letters Patent sealed.*
- LESAGE.  
28th September 1853.
2228. MICHEL OVIDE BERNARD LESAGE, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"Certain improvements in hydraulic engines."  
*Letters Patent sealed.*
- PHILLIPS.  
29th September 1853.
2229. JOHN PHILLIPS, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in shaping metals."  
*Letters Patent sealed.*
- ILIFFE.  
NEWMAN.  
JENKINS.  
29th September 1853.
2230. HENRY JEREMIAH ILIFFE and JAMES NEWMAN, of Birmingham, in the County of Warwick, Manufacturer, and HENRY JENKINS, of the same place, Die Sinker, for an invention for—"Improvements in the manufacture of buttons."  
*Complete specification; Letters Patent sealed.*
- RAUX.  
29th September 1853.
2231. FRANÇOIS JULIEN RAUX, Engineer, of Montmartre, in the Empire of France, for an invention for—"Improvements in railway-breaks."  
*Letters Patent sealed.*
- GRIFFITHS.  
29th September 1853.
2232. JAMES GRIFFITHS, of Wolverhampton, in the County of Stafford, Engineer, for an invention for—"Certain improvements in steam-engines."  
*Letters Patent sealed.*
- KENNARD.  
29th September 1853.
2233. THOMAS WILLIAM KENNARD, of Duke Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in constructing piers and foundations under water."  
*Letters Patent sealed.*
- BERDAN.  
29th September 1853.
2234. HIRAM BERDAN, of the City of New York, in the United States of America, but now of Cornhill, in the City of London, for an invention for—"A machine for collecting, preserving, and thereby preventing loss of mercury in the process of amalgamating metals, and for the more perfect and economical washing, separating, and amalgamating of auriferous and other ores."  
*Letters Patent sealed; no specification filed.*



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| FONTAINE MOREAU.<br>30th September 1853.        | 2235. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, and 39, Rue de l'Echiquier, Paris, France, for an invention for—"Improvements in treating certain exotic plants for the production of a fibrous substance known in commerce by the name of 'Vegetable silk.'"— <i>A communication.</i><br><i>Letters Patent sealed.</i>                       |
| WILLIS.<br>30th September 1853.                 | 2236. JAMES WILLIS, of Wallingford, in the County of Berks, Harness Maker, for an invention for—"Improvements in gig-harness."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                    |
| JOHNSON.<br>30th September 1853.                | 2237. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for throwing out ropes or lines for the better preservation of life and property."— <i>A communication from Monsieur D'Houdetot, of Havre, in the Empire of France, Receiver-General of Finance.</i><br><i>Letters Patent sealed.</i> |
| PLANT.<br>30th September 1853.                  | 2238. JOHN PLANT, of Beswick, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in the manufacture of textile fabrics."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                          |
| BRISCO.<br>HORSMAN.<br>30th September 1853.     | 2239. ROBERT BRISCO, of Low Mill House, in the Parish of Saint Bees, in the County of Cumberland, Esquire, and PETER SWIRES HORSMAN, of the Parish of Saint John's, Beckermeth, in the same County, Gentleman, for an invention for—"Certain improvements in machinery for heckling flax, hemp, China grass, and other fibrous substances."<br><i>Letters Patent sealed.</i>                                       |
| TAYLOR.<br>30th September 1853.                 | 2240. JOHN TAYLOR, of Princes Square, in the County of Middlesex, Engineer, for an invention for—"An improvement in the treatment or preparation of skins."<br>— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                          |
| BLOOMER.<br>1st October 1853.                   | 2241. CALEB BLOOMER, of Golds Hill, West Bromwich, in the County of Stafford, Manufacturer, for an invention for—"Improvements in the manufacture of anchors."<br><i>Complete specification; Letters Patent sealed.</i>                                                                                                                                                                                            |
| COATES.<br>1st October 1853.                    | 2242. CHARLES COATES, of Sunnyside, near Rawtenstall, in the County of Lancaster, Mechanic, in the employ of Messrs. Butterworth and Brooks, of Sunnyside aforesaid, for an invention for—"Improvements in coupling pipes and other articles, and in apparatus connected therewith."<br><i>Letters Patent sealed.</i>                                                                                              |
| SUMMERSCALES.<br>BANCROFT.<br>1st October 1853. | 2243. JOHN SUMMERSCALES, Shuttle Maker, and BENJAMIN BANCROFT, Shuttle Maker, both of Keighley, in the County of York, for an invention for—"Improvements in shuttles employed in weaving textile fabrics."<br><i>Provisional protection only.</i>                                                                                                                                                                 |
| DAVIES.<br>1st October 1853.                    | 2244. EDWARD DAVIES, of Bradford, in the County of York, Machine Maker, for an invention for—"Improvements in carrier-combs to be used in combing wool, cotton, silk, flax, or other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                                         |
| WOODCOCK.<br>1st October 1853.                  | 2245. THOMAS WOODCOCK, of Pultney Terrace, Islington, in the County of Middlesex, for an invention for—"Improved machinery for carving, cutting, chiselling, and engraving."<br><i>Provisional protection only.</i>                                                                                                                                                                                                |
| HENDRY.<br>1st October 1853.                    | 2246. JOHN HENDRY, of Glasgow, in the County of Lanark, North Britain, Brick Builder, for an invention for—"Improvements in ovens and apparatus for baking."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                |
| LETESTU.<br>1st October 1853.                   | 2247. JEAN MARIE LETESTU, Engineer, of Paris, in the French Empire, for an invention for—"Certain improvements in propelling ships and vessels."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                            |
| MURLAND.<br>1st October 1853.                   | 2248. SAMUEL MURLAND, of Castlewellan, County Down, Ireland, for an invention for—"Certain improvements in machinery for preparing linen yarn."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                   |
| AMBLER.<br>1st October 1853.                    | 2249. ISAAC AMBLER, of Manningham, near Bradford, in the County of York, for an invention for—"Improvements in preparing or combing wool and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                           |
| DREVELLE.<br>1st October 1853.                  | 2250. ADOLPHE DREVELLE, of Halifax, in the County of York, Merchant, Agent for Messieurs Ryo & Praxel, of Roubaix (France), for an invention for—"Improved apparatus to be used in connection with looms for weaving."— <i>A communication from Messieurs Ryo and Praxel, of Roubaix, France.</i><br><i>Provisional protection only.</i>                                                                           |



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| <p>HALLIWELL.<br/>JOHNSON.<br/>1st October 1853.</p> <p>BROWN.<br/>1st October 1853.</p> <p>DWYER.<br/>BROWN.<br/>3rd October 1853.</p> <p>BAXTER.<br/>3rd October 1853.</p> <p>THOMPSON.<br/>3rd October 1853.</p> <p>COLEMAN.<br/>3rd October 1853.</p> <p>LEADBETTER.<br/>WRIGHT.<br/>3rd October 1853.</p> <p>WILDING.<br/>3rd October 1853.</p> <p>JEE.<br/>3rd October 1853.</p> <p>CROFTS.<br/>3rd October 1853.</p> <p>JACKSON.<br/>4th October 1853.</p> <p>PEACE.<br/>4th October 1853.</p> <p>JORDAN.<br/>4th October 1853.</p> <p>NORTON.<br/>4th October 1853.</p> <p>CROFTS.<br/>4th October 1853.</p> <p>DODGE.<br/>4th October 1853.</p> <p>SMART.<br/>4th October 1853.</p> <p>SHEARS.<br/>4th October 1853.</p> | <p>2251. ROBERT HALLIWELL, of Bolton-le-Moors, in the County of Lancaster, Mechanic, and WILLIAM JOHNSON, of Farnworth, in the same County, Manager, for an invention for—"Improvements in machinery for spinning and doubling cotton and other fibrous substances, and for grinding cards." <i>Letters Patent sealed.</i></p> <p>2252. WILLIAM BROWN, of Bradford, in the County of York, Mechanic, for an invention for—"Improvements in apparatus used in washing wool and other fibrous material." <i>Letters Patent sealed.</i></p> <p>2253. MICHAEL DWYER, of Unity Place, Samuel Street, Woolwich, in the County of Kent, a Commander in the Royal Navy, and JAMES BROWN, of 2, Bridge Terrace, Mile End, in the County of Middlesex, Machinist, for an invention for—"An improvement in anchors." <i>Letters Patent sealed.</i></p> <p>2254. JOHN WYNCOLL BAXTER, of Mistley, in the County of Essex, Ironmonger, for an invention for—"Certain improvements in ship-building." <i>Letters Patent sealed.</i></p> <p>2255. WILLIAM JOSEPH THOMPSON, of North Shields, in the County of Northumberland, Russian Vice-Consul, for an invention for—"Improvements in heating reverberatory and other furnaces."—<i>A communication.</i> <i>Letters Patent sealed.</i></p> <p>2256. JAMES COLEMAN, of 4, South Street, Finsbury, London, Manufacturer, for an invention for—"Improvements in the construction of compasses." <i>Provisional protection only.</i></p> <p>2257. JAMES LEADBETTER, of Halifax, in the County of York, Brazier, and WILLIAM WRIGHT, of the same Place, Plumber, for an invention for—"Improvements in machinery or apparatus for raising fluid and solid substances." <i>Letters Patent sealed.</i></p> <p>2258. WILLIAM HENRY WILDING, of Chesterfield Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in propelling machinery." <i>Letters Patent sealed.</i></p> <p>2259. ALFRED STANISTREET JEE, of 6, John Street, Adelphi, Civil Engineer, for an invention for—"Improvements in the construction of rails for railways." <i>Provisional protection only.</i></p> <p>2260. WILLIAM CROFTS, of Derby Terrace, Nottingham Park, Manufacturer, for an invention for—"Improvements in weaving." <i>Provisional protection only.</i></p> <p>2261. PETER ROTHWELL JACKSON, of Salford, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery for manufacturing hoops and wheels." <i>Letters Patent sealed.</i></p> <p>2262. WILLIAM PEACE, of Haigh, near Wigan, in the County of Lancaster, Mining Engineer, for an invention for—"Hewing and excavating coal, cannel, and other minerals, strata, and substances, by certain machinery and appliances thereto." <i>Letters Patent sealed.</i></p> <p>2263. HENRY JACOB JORDAN, of Berners Street in the County of Middlesex, Gentleman, for an invention for—"An improved medicine for the cure of venereal affections, which he denominates 'The Treisemar'."—<i>A communication.</i> <i>Letters Patent sealed.</i></p> <p>2264. JOHN NORTON, of Cork, in the County of Cork, Ireland, Esquire, for an invention for—"Improvements in firing explosive compounds." <i>Letters Patent sealed; no specification filed.</i></p> <p>2265. WILLIAM CROFTS, of Derby Terrace, Nottingham Park, Manufacturer, for an invention for—"Improvements in weaving." <i>Provisional protection only.</i></p> <p>2266. JOSEPH THOMAS DODGE, of St. Austell, in the County of Cornwall, for an invention for—"Improvements in the formation and arrangement of and mode of rigging and working the sails of yachts, ships, and other vessels." <i>Provisional protection only.</i></p> <p>2267. NEVIL SMART, of Merton, in the County of Surrey, Brickmaker, for an invention for—"Improvements in the manufacture of bricks." <i>Provisional protection only.</i></p> <p>2268. DANIEL TOWERS SHEARS, of Bankside, Southwark, for an invention for—"Improvements in brewing." <i>Provisional protection only.</i></p> |
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| GOSSAGE.<br>4th October 1853.           | 2269. WILLIAM GOSSAGE, of Widnes, in the County of Lancaster, for an invention for—"Improvements in obtaining certain saline compounds from solutions containing such compounds."<br><i>Letters Patent sealed.</i>                                                                                                                     |
| NORTON.<br>4th October 1853.            | 2270. JAMES LEE NORTON, of Ludgate Hill, in the City of London, Gentleman, for an invention for—"Improvements in instruments or apparatus for measuring and indicating the distance travelled by carriages and in the means of transmitting motion thereto from the running wheels."<br><i>Letters Patent sealed.</i>                  |
| HOLMES.<br>5th October 1853.            | 2271. JOSEPH HOLMES, of Portsea, in the County of Hampshire, Gentleman, for an invention for—"Improvements in soldiers' or mess canteens, and other articles for containing food."<br><i>Provisional protection only.</i>                                                                                                              |
| TURIFF.<br>5th October 1853.            | 2272. ALEXANDER TURIFF, of Paisley, in the County of Renfrew, North Britain, Engineer, for an invention for—"Improvements in retarding apparatus for the prevention of accidents on railways."<br><i>Letters Patent sealed.</i>                                                                                                        |
| WRIGHT.<br>5th October 1853.            | 2273. JOHN WRIGHT, of Rochester, in the County of Kent, Civil Engineer, for an invention for—"Improvements in apparatus to facilitate the landing and embarking of passengers from steam-boats and other vessels."<br><i>Letters Patent sealed.</i>                                                                                    |
| WILSON.<br>5th October 1853.            | 2274. JAMES THOMSON WILSON, of Falkirk, N. B., for an invention for—"Improvements in the manufacture of alum."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                        |
| BETJEMANN.<br>5th October 1853.         | 2275. HENRY JOHN BETJEMANN, of New Oxford Street, in the County of Middlesex, for an invention for—"Improvements in apparatus for fixing capsules on the necks of bottles and other vessels."<br><i>Letters Patent sealed.</i>                                                                                                         |
| CROFTS.<br>5th October 1853.            | 2276. WILLIAM CROFTS, of Derby Terrace, Nottingham Park, Manufacturer, for an invention for—"Improvements in the production of figuring in weaving."<br><i>Provisional protection only.</i>                                                                                                                                            |
| WORTH.<br>CANAVAN.<br>5th October 1853. | 2277. SAMUEL LEAKE WORTH, of 293, Oxford Street, in the County of Middlesex, Brushmaker, and AGMOND DISHIN VESEY CANAVAN, of Fitzroy Street, also in the County of Middlesex, late Serjeant-saddler in the 13th Light Dragoons, for an invention for—"An improved polishing and brightening surface."<br><i>Letters Patent sealed.</i> |
| STEVENS.<br>5th October 1853.           | 2278. HENRY STEVENS, of Trafalgar Square, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the preparation of vegetable substances for the purpose of preserving the same."— <i>A communication.</i><br><i>Provisional protection only</i>                                                                 |
| MASON.<br>5th October 1853.             | 2279. JOHN MASON, of Rochdale, in the County of Lancaster, Machinist, for an invention for—"Improvements in preparing cotton for spinning, and in machinery or apparatus for effecting the same."<br><i>Letters Patent sealed.</i>                                                                                                     |
| TIZARD.<br>5th October 1853.            | 2280. WILLIAM LITTELL TIZARD, of Aldgate, in the City of London, Brewers' Engineer, for an invention for—"Improvements in thermometers and other like indicators."<br><i>Letters Patent sealed.</i>                                                                                                                                    |
| MILNER.<br>6th October 1853.            | 2281. JOHN MILNER, of Stratford, in the County of Essex, Engineer, for an invention for—"Improvements in steam-engines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                              |
| SCHÖNEMANN.<br>6th October 1853.        | 2282. JULIUS SCHÖNEMANN, of No. 89, Great Portland Street, in the County of Middlesex, for an invention for—"New constructions of weighing machines."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                        |
| CARY.<br>6th October 1853.              | 2283. JOSEPH HENRY CARY, of the City of Norwich, Pianoforte-action Maker, for an invention for—"An improved pianoforte-action for upright pianofortes."<br><i>Letters Patent sealed.</i>                                                                                                                                               |
| JOHNSON.<br>4th October 1853.           | 2284. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in thrashing machines and in apparatus connected therewith."— <i>A communication from Germain Sommeiller, of Turin, Engineer.</i> <i>Provisional protection only.</i>  |
| DE CASTRO.<br>6th October 1853.         | 2285. MANUEL FERNANDEZ DE CASTRO, of Madrid, in the Kingdom of Spain, Mining Engineer, for an invention for—"Improved means of preventing accidents on railways."<br><i>Letters Patent sealed.</i>                                                                                                                                     |



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| <p>HARGROVE.<br/>RICHARDSON.<br/>6th October 1853.</p> <p>GODDARD.<br/>6th October 1853.</p> <p>GEEVES.<br/>6th October 1853.</p> <p>RUBERY.<br/>6th October 1853.</p> <p>HOLM.<br/>6th October 1853.</p> <p>ELLINS.<br/>7th October 1853.</p> <p>ELLIS.<br/>7th October 1853.</p> <p>BULLOUGH.<br/>WALMSLEY.<br/>WHITTAKER.<br/>7th October 1853.</p> <p>FERGUSON.<br/>LILLIE.<br/>7th October 1853.</p> <p>JOHNSON.<br/>7th October 1853.</p> <p>PORTER.<br/>7th October 1853.</p> <p>ONIONS.<br/>BROMHEAD.<br/>7th October 1853.</p> <p>MATTHIAS.<br/>BAILEY.<br/>7th October 1853.</p> <p>LAMBERT.<br/>7th October 1853.</p> <p>CORLETT.<br/>7th October 1853.</p> <p>WHITEHEAD.<br/>WHITEHEAD.<br/>7th October 1853.</p> | <p>2286. ALFRED ELY HARGROVE, of the City of York, Printer, and RALPH RICHARDSON, of Hartlepool, in the County of Durham, Engineer, for an invention for—"Improvements in machinery or apparatus for printing." <i>Letters Patent sealed.</i></p> <p>2287. HENRY GODDARD, of Castle Gate, Nottingham, Kitchen Range Manufacturer, for an invention for—"Improvements in stoves and kitchen-ranges." <i>Letters Patent sealed.</i></p> <p>2288. WILLIAM GEEVES, of the Caledonian Mills, New Wharf Road, Caledonian Road, in the County of Middlesex, for an invention for—"Improvements in the manufacture of bricks." <i>Letters Patent sealed.</i></p> <p>2289. JOHN RUBERY, of Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of umbrella and parasol furniture."—<i>A communication.</i> <i>Letters Patent sealed.</i></p> <p>2290. CHARLES AUGUSTUS HOLM, of 21, Cecil Street, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in machinery for raising or propelling elastic and non-elastic fluids." <i>Letters Patent sealed.</i></p> <p>2291. GEORGE ELLINS, of Droitwich, in the County of Worcester, Gentleman, for an invention for—"New or improved machinery for thrashing or separating the stem and husk from the grain or seed of wheat, barley, flax, and other plants." <i>Provisional protection only.</i></p> <p>2292. WILLIAM ELLIS, of Sheffield, in the County of York, Artist, for an invention for—"Improvements in the manufacture and in the ornamenting of china, porcelain, and pottery wares." <i>Provisional protection only.</i></p> <p>2293. JAMES BULLOUGH, of Accrington, in the County of Lancaster, JOHN WALMSLEY and DAVID WHITTAKER, of Blackburn, in the same County, for an invention for—"Improvements in machinery or apparatus for warping and sizing, or otherwise preparing yarns or warps to be woven." <i>Letters Patent sealed.</i></p> <p>2294. JAMES FERGUSON, of Glasgow, in the County of Lanark, North Britain, and JAMES LILLIE, of the same place, Tailors, for an invention for—"Improvements in trousers and similar articles of dress." <i>Provisional protection only.</i></p> <p>2295. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for compressing or rarefying air or other elastic fluids."—<i>A communication from Germain Sommeiller, of Turin, Engineer.</i> <i>Letters Patent sealed.</i></p> <p>2296. JOSEPH PORTER, of the Salford Screw Bolt Works, in the County of Lancaster, Engineer and Toolmaker, for an invention for—"Improvements in machines for drilling or boring metals or other substances." <i>Letters Patent sealed.</i></p> <p>2297. JOHN ONIONS, of 3, Park Terrace, and SAMUEL BROMHEAD, of Marlborough Estate, both of Peckham, Surrey, Engineers, for an invention for—"Certain improvements in steam-engine boilers." <i>Provisional protection only.</i></p> <p>2298. WILLIAM JAMES MATTHIAS and THOMAS BAILEY, of Seckforde Street, Clerkenwell, in the County of Middlesex, Clockmakers and Co-partners, for an invention for—"Improvements in obtaining power by mechanical means." <i>Provisional protection only.</i></p> <p>2299. THOMAS LAMBERT, of Short Street, New Cut, Lambeth, in the County of Surrey, Brassfounder, for an invention for—"Improvements in ships' water-closets." <i>Letters Patent sealed.</i></p> <p>2300. ROBERT JAMES CORLETT, of Monmouth, Gentleman, for an invention for—"Improved machinery for preparing or scutching flax and other fibrous materials requiring such an operation."—<i>A communication from the inventor Mr. Benjamin Delattre, of Setques, in the Empire of France.</i> <i>Provisional protection only.</i></p> <p>2301. FRANCIS WHITEHEAD, of Crayford, in the County of Kent, Draughtsman, and WILLIAM WHITEHEAD, of the same place, Blockcutter, for an invention for—"Improvements applicable to lanterns, lamps, lamp-shades, and reflectors for reflecting, concentrating or diffusing light." <i>Letters Patent sealed.</i></p> |
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| ARCHER.<br>8th October 1853.                | 2302. ALEXANDER EDWARD DUDLEY KNOX ARCHER, Clerk to William Betts, of No. 1, Wharf Road, City Road, Capsule Manufacturer, for an invention for—"Improvements in apparatus for applying metallic capsules." <i>Letters Patent sealed.</i>                                                                                                                                                                    |
| POOLE.<br>KEMP.<br>8th October 1853.        | 2303. JOHN POOLE, of 11, Friend's Place, Peckham, Surrey, and JAMES COLQUHOUN KEMP, of Highgate, Middlesex, for an invention for—"An improvement in the construction of railway-chairs and railway engine, carriage, and waggon wheels, and in the method of fixing the railway-bars or tram-plates to the chair, and the mode of manufacturing railway-chairs." <i>Provisional protection NOT granted.</i> |
| KRAUT.<br>8th October 1853.                 | 2304. HENRY KRAUT, of Zurich, in Switzerland, Engineer, for an invention for—"Improvements in stands for casks and barrels." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                  |
| DENTON.<br>8th October 1853.                | 2305. JOSEPH DENTON, of Prestwich, near Manchester, in the County of Lancaster, Mechanical Engineer, for an invention for—"Improvements in looms for weaving." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                |
| DUBS.<br>8th October 1853.                  | 2306. HENRY DUBS, of Vulcan Foundry, near Warrington, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in the manufacture of wheels and tires, and also in the construction of furnaces employed in such or similar manufactures." <i>Letters Patent sealed.</i>                                                                                                            |
| WILKINSON.<br>8th October 1853.             | 2307. WILLIAM WILKINSON, of the Town and County of the Town of Nottingham, Framework-knitter, for an invention for—"Improvements in protecting telegraph-wires." <i>Provisional protection only.</i>                                                                                                                                                                                                        |
| SMARTT.<br>8th October 1853.                | 2308. GEORGE LIFFORD SMARTT, of Enfield, in the County of Middlesex, Chemist, for an invention for—"Improvements in vessels for preserving leeches and fish alive." <i>Letters Patent sealed.</i>                                                                                                                                                                                                           |
| POTTS.<br>8th October 1853.                 | 2309. WILLIAM POTTS, of Birmingham, in the County of Warwick, for an invention for—"Improvements in mantel-pieces." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                           |
| PLIMPTON.<br>PLIMPTON.<br>8th October 1853. | 2310. HENRY RICHARDSON PLIMPTON and JAMES LEONARD PLIMPTON, of the State of Massachusetts, of the United States of America, for an invention for—"A new and useful article of furniture, to serve the purposes of a bedstead, a toilet-table, or a wash-stand, and a writing-desk." <i>Letters Patent sealed.</i>                                                                                           |
| MAY.<br>SAMUEL.<br>8th October 1853.        | 2311. CHARLES MAY and JAMES SAMUEL, both of Great George Street, Westminster, Civil Engineers, for an invention for—"Improvements in joining the ends of the rails of railways." <i>Letters Patent sealed.</i>                                                                                                                                                                                              |
| CLAYTON.<br>8th October 1853.               | 2312. HENRY CLAYTON, of the Atlas Works, Upper Park Place, Dorset Square, in the County of Middlesex, Machinist, for an invention for—"Improvements in the manufacture of bricks and tiles." <i>Letters Patent sealed.</i>                                                                                                                                                                                  |
| NEWTON.<br>8th October 1853.                | 2313. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in fire-arms and cartridges."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                                              |
| MARYON.<br>10th October 1853.               | 2314. ROBERT JAMES MARYON, of 37, York Road, Lambeth, in the County of Surrey, Gent., for an invention for—"Improvements in the construction of anchors." <i>Provisional protection only.</i>                                                                                                                                                                                                               |
| RAWSON.<br>WHITEHEAD.<br>10th October 1853. | 2315. HENRY RAWSON, of Leicester, in the County of Leicester, Manufacturer, and THOMAS WHITEHEAD, of the same place, Mechanic, for an invention for—"Improvements in regulating the flow of air to steam-boiler furnaces." <i>Provisional protection only.</i>                                                                                                                                              |
| WILSON.<br>10th October 1853.               | 2316. GEORGE FERGUSON WILSON, of Belmont, Vauxhall, Managing Director of Price's Patent Candle Company, for an invention for—"Improvements in treating wool and fabrics composed of wool." <i>Letters Patent sealed.</i>                                                                                                                                                                                    |
| WILSON.<br>10th October 1853.               | 2317. GEORGE FERGUSON WILSON, of Belmont, Vauxhall, Managing Director of Price's Patent Candle Company, for an invention for—"Improvements in the manufacture of candles and night-lights." <i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| WILSON.<br>10th October 1853.               | 2318. GEORGE FERGUSON WILSON, of Belmont, Vauxhall, Managing Director of Price's Patent Candle Company, for an invention for—"Improvements in the manufacture of soap." <i>Letters Patent sealed.</i>                                                                                                                                                                                                       |



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| WARNER.<br>SHOTTON.<br>10th October 1853.  | 2319. FREDERICK WARNER, of the house of John Warner and Sons, of the Crescent, Jewin Street, City, and JOHN SHOTTON, Foreman in the employ of the said John Warner and Sons, for an invention for—"Improvements in the manufacture of large bells."<br><i>Letters Patent sealed.</i>            |
| BROOMAN.<br>10th October 1853.             | 2320. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in railway switches."<br><i>A communication. Letters Patent sealed.</i>                                                                                          |
| PATTINSON.<br>10th October 1853.           | 2321. HUGH LEE PATTINSON, of Scots House, near Gateshead, in the County of Durham, Chemical Manufacturer, for an invention for—"Improvements in the manufacture of sulphuric acid."<br><i>Provisional protection only.</i>                                                                      |
| KNOWLES.<br>11th October 1853.             | 2322. JAMES KNOWLES, of Eagley Bank, near Bolton-le-Moors, in the County of Lancaster, Coal Proprietor, for an invention for—"Improvements in machinery for regulating the velocity of steam-engines and other motive-power engines."<br><i>Letters Patent sealed; no specification filed.</i>  |
| KEMP.<br>11th October 1853.                | 2323. HENRY KEMP, of Barkham Terrace, Southwark, Gentleman, for an invention for—"Certain improvements in the preparation of wood for sheathing ships, as a substitute for copper & other metals, also in house, ship, & pier building," &c. &c.<br><i>Provisional protection only.</i>         |
| WILKINSON.<br>11th October 1853.           | 2324. WILLIAM WILKINSON, of the Town and County of the Town of Nottingham, Framework-knitter, for an invention for—"Improvements in bands, belts, and straps."<br><i>Provisional protection only.</i>                                                                                           |
| FARJON-DEMOULIN.<br>11th October 1853.     | 2325. LOUIS ALEXANDRE FARJON-DEMOULIN, Engineer, of 17, Rue Sedaine, Paris, Empire of France, for an invention for—"Improved apparatus applicable to carriages on common roads, for the prevention of accidents and increasing the power of locomotion."<br><i>Provisional protection only.</i> |
| BEARDMORE.<br>RIGBY.<br>11th October 1853. | 2326. WILLIAM BEARDMORE, of Deptford, in the County of Kent, Engineer, and WILLIAM RIGBY, of Glasgow, in the County of Lanark, in Scotland, Engineer, for an invention for—"Certain improvements in steam-engines."<br><i>Letters Patent sealed.</i>                                            |
| DICK.<br>11th October 1853.                | 2327. DAVID DICK, of Paisley, in the County of Renfrew, North Britain, Machinist, for an invention for—"Improvements in the manufacture of flexible tubes or pipes."<br><i>Provisional protection only.</i>                                                                                     |
| SHARP.<br>11th October 1853.               | 2328. JOHN COLIN SHARP, of Paisley, in the County of Renfrew, North Britain, Engineer, for an invention for—"Improvements in retarding apparatus for the prevention of accidents on railways."<br><i>Letters Patent sealed.</i>                                                                 |
| WORRALL.<br>11th October 1853.             | 2329. JAMES WORRALL, junior, of Salford, in the County of Lancaster, Dyer and Finisher, for an invention for—"Certain improvements in the method of dyeing fustians and other textile fabrics, and in the machinery or apparatus connected therewith."<br><i>Letters Patent sealed.</i>         |
| ROWLEY.<br>11th October 1853.              | 2330. CHARLES ROWLEY, of Birmingham, in the County of Warwick, for an invention for—"Improvements in ornamental dress-fastenings."<br><i>Letters Patent sealed.</i>                                                                                                                             |
| NALDER.<br>KNAPP.<br>11th October 1853.    | 2331. JAMES HALL NALDER, of Alvescott, in the County of Oxford, Farmer, and JOHN THOMAS KNAPP, of Clanfield, in the same County, Machinist, for an invention for—"Improvements in winnowing or dressing corn."<br><i>Letters Patent sealed.</i>                                                 |
| CAMPBELL.<br>11th October 1853.            | 2332. WILLIAM MUIR CAMPBELL, of Glasgow, in the County of Lanark, North Britain, Furnace Builder, for an invention for—"Improvements in earthenware kilns."<br><i>Letters Patent sealed.</i>                                                                                                    |
| HARRIS.<br>11th October 1853.              | 2333. JAMES HARRIS, of Hanwell, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus for heating water and other fluids."<br><i>Provisional protection only.</i>                                                                                               |
| MUNTZ.<br>11th October 1853.               | 2334. WILLIAM HENRY MUNTZ, late of England, but now of the State of Massachusetts, of the United States of America, for an invention for—"A new and useful improvement in paddle-wheels for navigable vessels."<br><i>Letters Patent sealed.</i>                                                |



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| WEBSTER.<br>11th October 1853.               | 2335. JAMES WEBSTER, of Leicester, Engineer, for an invention for—"Improvements in water-gauges for steam-boilers."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                     |
| PORTER.<br>11th October 1853.                | 2336. JOHN FRANCIS PORTER, of Bessborough Street, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the moulding of bricks and other articles of like materials."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                       |
| COWVAN.<br>11th October 1853.                | 2337. BERNARD COWVAN, of Fenchurch Street, in the City of London, for an invention for—"Improvements in giving signals on railways."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                    |
| GOBLE.<br>12th October 1853.                 | 2338. GEORGE FREDRIC GOBLE, of 15, Fish St. Hill, in the City of London, Civil Engineer, for an invention for—"Improvements in apparatus for signalizing and stopping railway trains."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                  |
| MORISON.<br>HURN.<br>12th October 1853.      | 2339. JOHN MORISON and DANIEL HURN, both of Norton Folgate, within the Liberty of the Tower, for an invention for—"Improvements in the manufacture of nose-bags."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                       |
| CALLAN.<br>12th October 1853.                | 2340. NICHOLAS CALLAN, of the R. C. College of Manooth, in the County of Kildare, Ireland, for an invention for—"A means of protecting iron of every kind against the action of the weather, and of various corroding substances, so that iron thus protected will answer for roofing cisterns, baths, gutters, pipes, window-frames, telegraphic wires for marine and various other purposes."<br><i>Complete specification: Letters Patent sealed.</i> |
| CLARK.<br>CLARK.<br>12th October 1853.       | 2341. PATRICK CLARK and ALEXANDER CLARK, both of Gate Street, Lincoln's Inn Fields, in the County of Middlesex, Engineers, for an invention for—"Improvements in revolving shutters and other closures for portable and other buildings."<br><i>Letters Patent sealed.</i>                                                                                                                                                                               |
| SMITH.<br>12th October 1853.                 | 2342. THOMAS SMITH, of Lambeth, in the County of Surrey, Potter, for an invention for—"An improved method of making pipes."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                       |
| MAUMENÉ.<br>12th October 1853.               | 2343. EDMÉ JULES MAUMENÉ, of Rheims, in France, Professor of Chemistry, for an invention for—"Improvements in the treatment of lignite or wood-coal, and in obtaining various useful products therefrom."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                               |
| WATTHMAN.<br>12th October 1853.              | 2344. ROBERT WILLIAM WATTHMAN, of Bentham House, in the County of York, Gentleman, for an invention for—"Improvements in apparatus for applying paint, varnish, and other liquid substances, and also for cleaning carriages, ships, roadways, houses, and other buildings."<br><i>Letters Patent sealed.</i>                                                                                                                                            |
| MAPPLE.<br>MAPPLE.<br>12th October 1853.     | 2345. HENRY MAPPLE, of Child's Hill, in the Parish of Hendon, County of Middlesex, and DANIEL MOORE MAPPLE, of No. 16, Sidney St., City Road, Islington, Middlesex, for an invention for—"Electric-telegraphic purposes, being an improved printing and signal electric telegraph, with electric alarm attached."<br><i>Provisional protection only.</i>                                                                                                 |
| BRADLEY.<br>12th October 1853.               | 2346. GEORGE BRADLEY, of Castleford, in the County of York, Gentleman, for an invention for—"Improvements in stoppers or covers for bottles, and in the tools or apparatus for manufacturing the same."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                 |
| HIGGINS.<br>WHITWORTH.<br>12th October 1853. | 2347. JAMES HIGGINS, of Salford, in the County of Lancaster, Machine Maker, and THOMAS SCHOFIELD WHITWORTH, of the same place, Mechanic, for an invention for—"Improvements in machinery or apparatus for spinning and doubling fibrous materials."<br><i>Letters Patent sealed.</i>                                                                                                                                                                     |
| JACKSON.<br>12th October 1853.               | 2348. CHARLES SCOTT JACKSON, of Cannon Street, City, for an invention for—"Improvements in preserving seeds, potatoes, and other roots."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                |
| GIBSON.<br>12th October 1853.                | 2349. JOHN GIBSON, of Bloomfield Road, Paddington, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in fixing tire on railway-wheels."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                              |
| JACKSON.<br>12th October 1853.               | 2350. CHARLES SCOTT JACKSON, of Cannon Street, City, for an invention for—"Improvements in preserving timber and other vegetable matters."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                              |
| JONES.<br>JONES.<br>12th October 1853.       | 2351. RICHARD JONES and CHARLES JOHN JONES, both of Ipswich, in the County of Suffolk, Engineers, for an invention for—"Improvements in fire-arms."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                     |



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| BUTTERWORTH.<br>13th October 1853.         | 2352. HENRY WHITAKER BUTTERWORTH, of Philadelphia, Pennsylvania, in the United States of America, for an invention for—"An improved supplemental reflux-valve for steam engines."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                            |
| CAMPBELL.<br>13th October 1853.            | 2353. WILLIAM MUIR CAMPBELL, of Glasgow, in the County of Lanark, North Britain, Furnace Builder, for an invention for—"Improvements in potters' or earthenware kilns."<br><i>Letters Patent sealed.</i>                                                                                                                                                               |
| POPPLÉ.<br>WOODHEAD.<br>13th October 1853. | 2354. ROBERT POPPLÉ, of Beverley, in the County of York, Colour Manufacturer, and HENRY WOODHEAD, of the Town of Kingston-upon-Hull, in the County of the same Town, Cotton Spinner, for an invention for—"Improvements in machinery for slubbing, roving, and spinning cotton and other fibrous substances."<br><i>Letters Patent sealed; no specification filed.</i> |
| ELCE.<br>13th October 1853.                | 2355. JOHN ELCE, of the City of Manchester, Machine Maker, for an invention for—"Improvements in machinery for preparing and spinning cotton and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                           |
| ROBINSON.<br>13th October 1853.            | 2356. WILLIAM ROBINSON, of the City of Manchester, in the County of Lancaster, Screw-bolt Manufacturer, for an invention for—"Improvements in machinery or apparatus for manufacturing or forging iron or other metals into screw-bolts, nuts, rivets, pins, studs, or other similar articles."<br><i>Letters Patent sealed.</i>                                       |
| LILLIE.<br>13th October 1853.              | 2357. Sir JOHN SCOTT LILLIE, Companion of the Most Honourable Order of the Bath, of 4, South Street, Finsbury, London, for an invention for—"Improvements in machinery for breaking stones and other hard substances."<br><i>Letters Patent sealed.</i>                                                                                                                |
| WAY.<br>13th October 1853.                 | 2358. JOHN THOMAS WAY, of Holles Street, Cavendish Square, in the County of Middlesex, Professor of Chemistry, for an invention for—"Improvements in making & refining sugar and in treating saccharine fluids."<br><i>Letters Patent sealed.</i>                                                                                                                      |
| POPE.<br>13th October 1853.                | 2359. ABRAHAM POPE, of 81, Edgeware Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in furnaces."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                      |
| PIPER.<br>13th October 1853.               | 2360. JOSEPH PIPER, of Shoreditch, in the County of Middlesex, Furnishing Ironmonger, for an invention for—"Improvements in apparatus for affixing adhesive stamps and labels."<br><i>Provisional protection only.</i>                                                                                                                                                 |
| MEINIG.<br>13th October 1853.              | 2361. CHARLES LUDOVIC AUGUSTUS MEINIG, of 103, Leadenhall Street, in the City of London, for an invention for—"Improvements in galvanic batteries."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| GRAHAME.<br>13th October 1853.             | 2362. THOMAS GRAHAME, of Hatton Hall, Wellingborough, in the County of Northampton, for an invention for—"Improvements in building ships and other vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                                                          |
| WAREE.<br>13th October 1853.               | 2363. THÉODORE BENOIT WARÉE, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"Certain improvements in apparatus for measuring the pressure of air, steam, gas, and liquids."<br><i>Complete specification; protection for SIX months only.</i>                                                               |
| JONES.<br>14th October 1853.               | 2364. WILLIAM JONES, of Porchester Street, Hyde Park Square, in the County of Middlesex, Gentleman, for an invention for—"A certain chemical compound or compounds applicable as a remedy for cuts, scalds, burns, wounds, and accidents of a similar nature to which the same can or may be applied."<br><i>Provisional protection only.</i>                          |
| BROMHEAD.<br>14th October 1853.            | 2365. SAMUEL BROMHEAD, of Marlborough Estate, Peckham, Surrey, for an invention for—"Improvements in emigrants' and other portable houses & erections, and hinges of metal for all purposes requiring hinges."<br><i>Provisional protection only.</i>                                                                                                                  |
| M'LEAN.<br>RAE.<br>14th October 1853.      | 2366. ANDREW M'LEAN, of Edinburgh, in the County of Mid-Lothian, North Britain, Chemist, and WILLIAM FRASER RAE, of the same place, Brass-founder, for an invention for—"Improvements in apparatus for the manufacture of aerated liquids."<br><i>Letters Patent sealed.</i>                                                                                           |
| RIDGWAY.<br>14th October 1853.             | 2367. WILLIAM RIDGWAY, of Hanley, in the County of Stafford, Earthenware Manufacturer, for an invention for—"Improvements in the construction of ovens and kilns."<br><i>Provisional protection only.</i>                                                                                                                                                              |



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| DAVY.<br>TAYLOR.<br>14th October 1853. | 2368. MARY ANN DAVY, of Homerton, and ANN TAYLOR, of Islington, both in the County of Middlesex, for an invention for—"Improvements in the mechanical application of brushes." <i>Letters Patent sealed.</i>                                                                                                                                     |
| PALMER.<br>14th October 1853.          | 2369. WILLIAM PALMER, of Brighton, in the County of Sussex, Ironmonger, for an invention for—"Certain improvements in ventilating." <i>Letters Patent sealed.</i>                                                                                                                                                                                |
| NEWTON.<br>14th October 1853.          | 2370. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for preparing and combing wool."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                          |
| FARRELL.<br>14th October 1853.         | 2371. JOHN FARRELL, of Stangate, in the County of Surrey, for an invention for—"Improvements in the means of insulating wire." <i>Provisional protection only.</i>                                                                                                                                                                               |
| CADOGAN.<br>14th October 1853.         | 2372. THE HONOURABLE FREDERICK WILLIAM CADOGAN, of Hertford Street, May Fair, in the County of Middlesex, for an invention for—"Improvements in the means of obtaining telegraphic communications; applicable to armies in the field." <i>Letters Patent sealed.</i>                                                                             |
| BELLFORD.<br>14th October 1853.        | 2373. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn (City), London, Patent Agent, for an invention for—"Improvements in drying grain, flour, timber, fruit, vegetables, and other substances."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                         |
| GILL.<br>15th October 1853.            | 2374. RICHARD GILL, of Culcheth, near Leigh, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in weaving single and double fabrics." <i>Provisional protection only.</i>                                                                                                                                             |
| COATES.<br>15th October 1853.          | 2375. CHARLES COATES, of Sunnyside, near Rawtenstall, in the County of Lancaster, Mechanic, in the employ of Messieurs Butterworth and Brooks, of Sunnyside aforesaid, for an invention for—"Improvements in and applicable to looms for weaving." <i>Letters Patent sealed.</i>                                                                 |
| THOMAS.<br>15th October 1853.          | 2376. FREDERICK SAMSON THOMAS, of 17, Cornhill, City of London, and Hook's Villa, Fulham, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the construction of railway carriages." <i>Letters Patent sealed.</i>                                                                                                     |
| PRICE.<br>15th October 1853.           | 2377. BENJAMIN PRICE, of Fieldgate Street, Whitechapel, in the County of Middlesex, Furnace-builder, for an invention for—"Certain improvements in the means of or apparatus for reducing the quantity of smoke from the furnaces of boilers, coppers, pans, and other like vessels." <i>Letters Patent sealed.</i>                              |
| JOHNSON.<br>15th October 1853.         | 2378. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of iron."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                              |
| ROYLE.<br>CHELL.<br>15th October 1853. | 2379. BUCKLEY ROYLE, of Manchester, in the County of Lancaster, Manufacturer, and WILLIAM MACEWAN CHELL, of the same City, Salesman, for an invention for—"A certain method of treating silk waste arising from winding, warping, and weaving silk, and rendering it capable of being spun or otherwise employed." <i>Letters Patent sealed.</i> |
| BELLFORD.<br>15th October 1853.        | 2380. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, London, Patent Agent, for an invention for—"Certain improvements in the treatment of copper ores."— <i>A communication.</i> <i>Complete specification; Letters Patent sealed.</i>                                                                                        |
| CLOUX.<br>15th October 1853.           | 2381. CHARLES JOSEPH LOUIS CLOUX, junr., in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"A process for the preparation of hemp after the stripping." <i>Complete specification; Letters Patent sealed.</i>                                                                                      |
| WOODCOCK.<br>15th October 1853.        | 2382. THOMAS WOODCOCK, of Barnsbury Road, in the County of Middlesex, Carver, for an invention for—"Improved means of cutting, carving, engraving, piercing, or embossing metallic or other surfaces." <i>Provisional protection only.</i>                                                                                                       |
| PEARY.<br>15th October 1853.           | 2383. JOHN PEARY, of Salisbury Crescent, in the County of Middlesex, Smith, for an invention for—"Improved means of preventing accidents on railways." <i>Provisional protection only.</i>                                                                                                                                                       |



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| McDOUGALL.<br>15th October 1853.       | 2384. ALEXANDER McDOUGALL, of Manchester, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in the process of obtaining fatty matters from products arising in the manufacture of glue and other gelatinous substances."<br><i>Letters Patent sealed.</i>                                                                                                    |
| CORVI.<br>15th October 1853.           | 2385. ANTOINE CORVI, Organ Builder, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"Improvements to stationary and portable organs with keys and cylinder."<br><i>Complete specification; Letters Patent sealed.</i>                                                                                                                  |
| LAURIE.<br>15th October 1853.          | 2386. GEORGE LAURIE, of New York, in the United States of America, Dentist, for an invention for—"Improvements in the manufacture of artificial teeth and gums."<br>—A communication from John Allen, of Cincinnati, in America aforesaid, Dentist.<br><i>Letters Patent sealed.</i>                                                                                                             |
| APPLEGATH.<br>15th October 1853.       | 2387. AUGUSTUS APPELGATH, of Dartford, in the County of Kent, Printer, for an invention for—"Improvements in printing and embossing paper with a view to prevent forgery."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                      |
| CHANTRELL.<br>17th October 1853.       | 2388. GEORGE FREDERICK CHANTRELL, of Liverpool, in the County of Lancaster, Furnace Engineer, for an invention for—"Improved apparatus applicable to the manufacturing and the revivication of animal or vegetable charcoal, and other useful purposes."<br><i>Letters Patent sealed.</i>                                                                                                        |
| ROY.<br>17th October 1853.             | 2389. WILLIAM ROY, senior, of Cross-Arthurlie, in the County of Renfrew, North Britain, Calico Printer, for an invention for—"Improvements in the preparation or thickening of colouring matters for printing."<br><i>Provisional protection only.</i>                                                                                                                                           |
| DUNLOP.<br>17th October 1853.          | 2390. JOHN MACMILLAN DONLOP, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery or apparatus for pressing goods, applicable also to raising or removing heavy bodies."<br><i>Letters Patent sealed.</i>                                                                                                                                        |
| LOW.<br>BARNES.<br>17th October 1853.  | 2391. WILLIAM SCOWCROFT LOW and JOHN BARNES, both of the Village of Rawtenstall, in the County of Lancaster, Weavers, for an invention for—"An improved shuttle to be used in looms for weaving."<br><i>Provisional protection only.</i>                                                                                                                                                         |
| PASS.<br>17th October 1853.            | 2392. CAPPER PASS, of Bedminster, in the County of Somerset, Metal Refiner, for an invention for—"Improvements in the manufacture and refining of copper."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                      |
| JONES.<br>17th October 1853.           | 2393. ELLEN JONES, of Palace Street, Pimlico, in the County of Middlesex, Widow and Administratrix of William John Thomas Jones, of Palace Street aforesaid, deceased, for an invention for—"Improvements in steam-engine governors."— <i>being the same invention for which Letters Patent were granted to her late husband on the 14th day of April last.</i><br><i>Letters Patent sealed.</i> |
| LISTER.<br>17th October 1853.          | 2394. SAMUEL CUNLIFFE LISTER, of Bradford, in the County of York, for an invention for—"Improvements in combing cotton and wool."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                               |
| DE LA FONS.<br>17th October 1853.      | 2395. JOHN PALMER DE LA FONS, of Carlton Hill, St. John's Wood, in the County of Middlesex, Gentleman, for an invention for—"Improvements in apparatus for measuring and indicating the distance travelled by a carriage."<br><i>Letters Patent sealed.</i>                                                                                                                                      |
| APPLEGATH.<br>17th October 1853.       | 2396. AUGUSTUS APPELGATH, of Dartford, in the County of Kent, Printer, for an invention for—"Improvements in letterpress printing-machinery."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                   |
| HAITE.<br>LEACH.<br>17th October 1853. | 2397. JOHN JAMES HAITE and WILLIAM LEACH, both of New Coventry Street, London, Musical Instrument Makers, for an invention for—"Improvements in the pistons of certain valved wind instruments."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                                                 |
| PRICE.<br>18th October 1853.           | 2398. GEORGE PRICE, of Wolverhampton, in the County of Stafford, Auctioneer, for an invention for—"A new or improved method of communicating between the guard and driver of a railway-train."<br><i>Provisional protection only.</i>                                                                                                                                                            |
| STOCKS.<br>18th October 1853.          | 2399. GEORGE LOUIS STOCKS, of Limehouse Hole, Poplar, in the County of Middlesex, Ship Chandler, for an invention for—"Improvements in ships' jack stays for masts, and gaffs for fore-and-aft sails."<br><i>Letters Patent sealed.</i>                                                                                                                                                          |



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| D'AZENE.<br>18th October 1853.             | 2400. CHARLES PEYNAUD D'AZENE, of No. 35, Essex Street, Strand, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the method of rendering sea water fit for drinking and all other purposes where fresh water is ordinarily used."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                 |
| NOEL.<br>18th October 1853.                | 2401. ALPHONSE DOSTE NOEL, of Chancery Lane, in the County of Middlesex, French Advocate, for an invention for—"Improvements in the manufacture of zinc white."— <i>A communication from Louis Pierre Geslin.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                     |
| JOHNSON.<br>18th October 1853.             | 2402. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in raising or supporting heavy bodies, for the better preservation of life and property."— <i>A communication from Yelland Foreman, of the United States of America.</i><br><i>Provisional protection only.</i>                        |
| NICHOLSON.<br>18th October 1853.           | 2403. CORNELIUS NICHOLSON, of 3, New Broad Street, in the County of Middlesex, Esquire, Superintending Director of the Great Indian Peninsular Railway Company, for an invention for—"An apparatus for avoiding collisions of trains on railways."<br><i>Letters Patent sealed.</i>                                                                                                                    |
| RIDER.<br>18th October 1853.               | 2404. EMORY RIDER, of Coleman Street, in the City of London, Manufacturer, for an invention for—"Improvements in the manufacture or treatment of gutta percha, being improvements upon the invention secured to him by Letters Patent dated the 20th day of July, 1852."— <i>Partly a communication.</i><br><i>Letters Patent sealed.</i>                                                              |
| HARTAS.<br>18th October 1853.              | 2405. ISAAC HARTAS, of Wreton Hall, in the County of York, Farmer, for an invention for—"Improvements in machinery for cutting turnips and other roots."<br><i>Provisional protection only.</i>                                                                                                                                                                                                        |
| GIDLEY.<br>MUSCHAMP.<br>19th October 1853. | 2406. GUSTAVUS GIDLEY, of 43, Robert Street, Hoxton, in the County of Middlesex, and JOHN BELL MUSCHAMP, of Claremont House, Kensington, in the said County, for an invention for—"An improvement in making india-rubber solution for waterproofing cloths or other articles without the offensive smell produced by the use of naphtha, turpentine, oils, &c."<br><i>Provisional protection only.</i> |
| FONTAINE MOREAU.<br>19th October 1853.     | 2407. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, and 39, Rue de l'Echiquier, Paris, France, for an invention for—"An improved composition to be applied in substitution of bone and horn."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                 |
| CHILD.<br>WILSON.<br>19th October 1853.    | 2408. JOHN WRIGHT CHILD, of Halifax, in the County of York, and ROBERT WILSON, of Low Moor Iron Works, in the same County, Engineers, for an invention for—"Improvements in regulating motive-power engines."<br><i>Letters Patent sealed.</i>                                                                                                                                                         |
| NORTON.<br>19th October 1853.              | 2409. JOHN NORTON, of Cork, in the County of Cork, Ireland, Esquire, for an invention for—"Improvements in fire-arms."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                |
| ROY.<br>19th October 1853.                 | 2410. WILLIAM ROY, senior, of Cross Arthurlie, in the County of Renfrew, North Britain, Calico Printer, for an invention for—"Improvements in printing textile fabrics and other surfaces."<br><i>Letters Patent sealed.</i>                                                                                                                                                                           |
| SHAW.<br>19th October 1853.                | 2411. ROBERT SHAW, of Glasgow, in the County of Lanark, North Britain, Calico Printer, for an invention for—"Improvements in writing instruments."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                    |
| COLLIER.<br>19th October 1853.             | 2412. GEORGE COLLIER, of Halifax, in the County of York, Mechanic, for an invention for—"Improvements in the manufacture of carpets and other fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                               |
| LITTLE.<br>19th October 1853.              | 2413. WILLIAM LITTLE, of the Strand, in the County of Middlesex, for an invention for—"Improvements in typographic printing."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                   |
| BARRACLOUGH.<br>19th October 1853.         | 2414. CHARLES BARRACLOUGH, of Halifax, in the County of York, Mechanic, for an invention for—"Improvements in the manufacture of carpets and other fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                          |
| BARTON.<br>19th October 1853.              | 2415. JAMES BARTON, of Robert Street, Hampstead Road, in the County of Middlesex, Ironmonger, for an invention for—"Improvements in fittings for stables."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                            |



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| WATT.<br>19th October 1853.             | 2416. WILLIAM WATT, of Glasgow, in the County of Lanark, North Britain, Chemist, for an invention for—"Improvements in the preparation of flax & other fibrous substances."<br><i>Provisional protection only.</i>                                                                                                                                                                  |
| THOMPSON.<br>19th October 1853.         | 2417. THOMAS THOMPSON, of Much Park Street, Coventry, in the County of Warwick, Engineer, for an invention for—"Improvements in machinery for weaving carpets, coach lace, and velvet."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                                                    |
| DUSSUC.<br>19th October 1853.           | 2418. ALEXIS DUSSUC, of 33, Grove Place, Brompton, Gentleman, for an invention for—"An improved machine for digging and cultivating land."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                         |
| BINNS.<br>19th October 1853.            | 2419. WILLIAM BINNS, of Leeds, in the County of York, Cloth Dresser, for an invention for—"An improvement in the treatment or finishing of woollen and worsted fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                           |
| BEAUMONT.<br>19th October 1853.         | 2420. ANDRÉ ALEXANDER BEAUMONT, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"A system of production of caloric with or without combustible material."<br><i>Complete specification; Letters Patent sealed.</i>                                                                                                        |
| RUSSELL.<br>20th October 1853.          | 2421. WILLIAM RUSSELL, of Birmingham, in the County of Warwick, tube-drawer, for an invention for—"An improvement or improvements in the manufacture of copper tubes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                             |
| HADDAN.<br>20th October 1853.           | 2422. JOHN COOPE HADDAN, of Chelsea, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in adhesive stamps and labels."<br><i>Provisional protection NOT granted.</i>                                                                                                                                                                                   |
| FRANCE.<br>20th October 1853.           | 2423. JOHN FRANCE, of North Wharf Road, Paddington, in the County of Middlesex, for an invention for—"An improved morticing machine."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                              |
| BURNEY.<br>20th October 1853.           | 2424. JOHN BEASLEY BURNEY, of Battersea, in the County of Surrey, Superintendent of the City Steamboat Company, for an invention for—"Improvements in the prevention of smoke in steam-boilers."<br><i>Provisional protection only.</i>                                                                                                                                             |
| GOURGAS.<br>20th October 1853.          | 2425. GUSTAVE GOURGAS, of Paris, in the Empire of France, for an invention for—"Improvements in buffer, traction, or suspension springs for railway carriages, trucks, tenders, or locomotives."<br><i>Provisional protection only.</i>                                                                                                                                             |
| ROTH.<br>20th October 1853.             | 2426. JULIUS AUGUSTUS ROTH, of the City of Philadelphia, State of Pennsylvania, in the United States of America, Chemist, for an invention for—"Improvements in the bleaching and drying of fibres or fibrous materials, part of which improvements is applicable to the drying of woven and other textile manufactures."<br><i>Letters Patent sealed.</i>                          |
| MELVILLE.<br>20th October 1853.         | 2427. WILLIAM MELVILLE, of Burntisland, in the County of Fife, North Britain, Tailor, for an invention for—"Improvements in apparatus for drawing ships out of water."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                    |
| WOOFENDEN.<br>20th October 1853.        | 2428. JONATHAN WOOFENDEN, of Belfast, in the County of Antrim, Ireland, Engineer, for an invention for—"Improvements in power-looms for weaving."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                                          |
| JOHNSON.<br>21st October 1853.          | 2429. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in apparatus for sustaining bodies in the water."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                         |
| JOHNSON.<br>21st October 1853.          | 2430. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the treatment or manufacture of gutta-percha, and in the applications thereof."— <i>A communication from Jacques Lefevre, of Paris, in the Empire of France, Chemist.</i><br><i>Provisional protection only.</i> |
| CROSS.<br>CROSBY.<br>21st October 1853. | 2431. CHRISTOPHER CROSS, of Farnworth, in the County of Lancaster, Manufacturer, and JAMES CROSBY, of Manchester, in the said County, Manufacturer, for an invention for—"Improvements in machinery or apparatus for weaving."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                             |



PATENTS APPLIED FOR AND PATENTS GRANTED.

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| MARSHALL,<br>FAIRBAIRN.<br>21st October 1853.           | 2432. JAMES GARTH MARSHALL, Flax-spinner, and PETER FAIRBAIRN, Machinist, both of Leeds, in the County of York, for an invention for—"Improvements in machinery for combing flax, tow, wool, and other fibrous substances."<br><i>Letters Patent sealed; no specification filed.</i>                                                           |
| WARBURTON.<br>21st October 1853.                        | 2433. JAMES WARBURTON, of Addingham, in the County of York, Spinner, for an invention for—"Improvements in preparing rape-seed oil."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                 |
| MICHEL.<br>LECOMTE.<br>21st October 1853.               | 2434. CHARLES NICOLAS MICHEL and AUGUSTIN LECOMTE, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"Certain improvements in windows."<br><i>Letters Patent sealed.</i>                                                                                                               |
| CHALLETON.<br>21st October 1853.                        | 2435. JEAN FRANÇOIS FELIX CHALLETON, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"Certain improvements in carbonizing and distilling peat, coal, wood, and other animal, vegetable, and mineral substances."<br><i>Letters Patent sealed.</i>                                    |
| FOUQUE.<br>HÉBERT.<br>LE MARNEUR.<br>21st October 1853. | 2436. PIERRE MARIE FOUQUE, Civil Engineer, LOUIS RENÉ HÉBERT, and VINCENT ÉTIENNE DORET LE MARNEUR, of Paris, in the Empire of France, and of 16, Castle Street, Holborn, (City), London, for an invention for—"A fortune rudder in bronze."<br><i>Letters Patent sealed.</i>                                                                  |
| LLOYD.<br>21st October 1853.                            | 2437. SAMUEL LLOYD, the younger, of Wednesbury, in the County of Stafford, Engineer, for an invention for—"Improvements in the construction of turn-tables."<br><i>Letters Patent sealed.</i>                                                                                                                                                  |
| GREENBANK.<br>PILKINGTON.<br>21st October 1853.         | 2438. JAMES GREENBANK and SAMUEL PILKINGTON, of Withnell, in the County of Lancaster, Overlookers, in the employ of Messieurs John Park & Sons, of Withnell aforesaid, for an invention for—"Improvements in machinery for spinning cotton, and other fibrous substances."<br><i>Letters Patent sealed.</i>                                    |
| COOK.<br>COOK.<br>21st October 1853.                    | 2439. HENRY COOK, of Devonshire Terrace, in the County of Middlesex, Artist, and AUGUSTUS COOK, of Upper Berkeley Street, in the same County, Surgeon Dentist, for an invention for—"Improvements in the means of communication between guards, engine-drivers, or passengers in or on railway-trains."<br><i>Provisional protection only.</i> |
| GATTY.<br>21st October 1853.                            | 2440. FREDERICK ALBERT GATTY, of Accrington, in the County of Lancaster, Manufacturing Chemist, for an invention for—"Improvements in printing or producing colors on textile fabrics."<br><i>Complete specification; Letters Patent sealed.</i>                                                                                               |
| BENTLEY.<br>22nd October 1853.                          | 2441. HARRY BENTLEY, of Salford, in the County of Lancaster, Roller and Spindle-maker and Millwright, for an invention for—"Improvements in steam-boilers, and in the method of setting or fixing the same."<br><i>Letters Patent sealed.</i>                                                                                                  |
| BAILY.<br>22nd October 1853.                            | 2442. JOHN BAILY, of 113, Mount Street, Grosvenor Square, London, for an invention for—"The cure of the roup and other diseases in fowls and poultry."<br><i>Letters Patent sealed.</i>                                                                                                                                                        |
| MERMET.<br>22nd October 1853.                           | 2443. JEAN FRANÇOIS MERMET, 23, Red Lion St., Holborn, for an invention for—"An elastic spring contained in a cylindric tube or tubular case, the lid of which moves down and up according to the pression."<br><i>Provisional protection only.</i>                                                                                            |
| CONNELL.<br>22nd October 1853.                          | 2444. THOMAS CONNELL, of the City of Cork, Solicitor, for an invention for—"An improved safety apparatus and method or means of signalling to be used on railways in cases of danger or emergency."<br><i>Provisional protection only.</i>                                                                                                     |
| WALKER.<br>22nd October 1853.                           | 2445. THOMAS WALKER, of Pimlico, in the County of Middlesex, Engineer, for an invention for—"An improved railway-break."<br><i>Provisional protection only.</i>                                                                                                                                                                                |
| GREENFIELD.<br>22nd October 1853.                       | 2446. HUME GREENFIELD, of Old Cavendish Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in obtaining power by carbonic acid gas."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                            |
| JOHNSON.<br>22nd October 1853.                          | 2447. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in mills for grinding."— <i>A communication from Messrs. Fromont and Son, of Chartres, in the Empire of France, Machine-makers.</i><br><i>Letters Patent sealed.</i>           |



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| KRAUT.<br>24th October 1853.             | 2448. HENRY KRAUT, of Zurich, in Switzerland, Engineer, for an invention for—"Improvements in apparatus for regulating the temperature of stoves and furnaces, and of water, air, or other fluids contained in vessels or chambers; the strength of spirituous liquors and of chemical mixtures, and the hygrometric state of the air in buildings, rooms, &c." <i>Letters Patent sealed.</i> |
| STAINTON.<br>24th October 1853.          | 2449. THOMAS STAINTON, of South Shields, in the County of Durham, Cast-iron and Brass Founder, for an invention for—"Improvements in steering apparatus." <i>Letters Patent sealed.</i>                                                                                                                                                                                                       |
| YOUNG.<br>24th October 1853.             | 2450. JAMES DENOON YOUNG, of Westminster, in the County of Middlesex, Engineer and Manufacturer, for an invention for—"Improvements in casting." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                |
| BREWSTER.<br>24th October 1853.          | 2451. CHARLES BREWSTER, of Dunmow, in the County of Essex, for an invention for—"Improvements in printing machinery."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                                                                                                  |
| ARCHDEACON.<br>24th October 1853.        | 2452. EDWARD JOHN MONTAGU ARCHDEACON, of Gravel Lane, in the Borough of Southwark, for an invention for—"An improved method of indicating places, divisions, or contents in directories." <i>Letters Patent sealed.</i>                                                                                                                                                                       |
| HETT.<br>24th October 1853.              | 2453. ALEXANDER HETT, of Stoke Newington, in the County of Middlesex, for an invention for—"Certain improved means or arrangements for the prevention of smoke and the economizing of fuel in furnaces." <i>Provisional protection only.</i>                                                                                                                                                  |
| BLUNT.<br>24th October 1853.             | 2454. CHARLES FLY BLUNT, of No. 19, Montague Place, Russell Square, in the County of Middlesex, for an invention for—"An improved artificial fossil-coal fuel, which he desires to denominate 'Blunt's diamond coal-fuel.'" <i>Provisional protection only.</i>                                                                                                                               |
| SUMMERFIELD.<br>25th October 1853.       | 2455. THOMAS SUMMERFIELD, of Birmingham, in the County of Warwick, Glass Manufacturer, for an invention for—"Improvements in the construction and manufacture of windows." <i>Letters Patent sealed.</i>                                                                                                                                                                                      |
| PALMER.<br>25th October 1853.            | 2456. CHRISTOPHER RICHARD NORRIS PALMER, of Amwell, in the County of Hertford, Esquire, for an invention for—"An improved mode and apparatus for preventing accidents on railways (including improvements in signaling apparatus)." <i>Provisional protection only.</i>                                                                                                                       |
| VERDUN.<br>25th October 1853.            | 2457. JEAN BAPTISTE VERDUN, of Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"Improvements in the construction of globes." <i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                  |
| FORDRED.<br>BOYLE.<br>25th October 1853. | 2458. JOHN FORDRED, of Dover, in the County of Kent, Gentleman, and THOMAS BOYLE, of Forest Gate, in the County of Essex, Gentlemen, for an invention for—"Improvements in daylight reflectors, and in apparatus to be used in connection therewith." <i>Letters Patent sealed.</i>                                                                                                           |
| BRADY.<br>25th October 1853.             | 2459. JOHN DRUMGOOLE BRADY, of Cambridge Terrace, Hyde Park, in the County of Middlesex, Esquire, for an invention for—"An appendage to knapsacks." <i>Letters Patent sealed.</i>                                                                                                                                                                                                             |
| CURTIS.<br>DONKIN.<br>25th October 1853. | 2460. ALFRED CURTIS, of Sarratt Mills, in the County of Herts, Paper Manufacturer, and BRYAN DONKIN the younger, of Bermondsey, in the County of Surrey, Engineer, for an invention for—"Improvements in machinery for cutting rags, rope, fibrous and other substances." <i>Letters Patent sealed.</i>                                                                                       |
| BEASLEY.<br>25th October 1853.           | 2461. JOSEPH BEASLEY, junior, of Smethwick, in the County of Stafford, Iron-master, for an invention for—"Improvements in the construction and arrangement of puddling furnaces, which improvements are also applicable to other furnaces used in the generation of steam." <i>Letters Patent sealed.</i>                                                                                     |
| NEWTON.<br>25th October 1853.            | 2462. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of railroad-carriage axle."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                              |
| NEWTON.<br>25th October 1853.            | 2463. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"An improved construction of printing-press."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                      |



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| BOGUE.<br>25th October 1853.                  | 2464. DAVID BOGUE, of Fleet Street, in the City of London, Publisher, for an invention for—"An improved mode of producing printing surfaces."— <i>A communication.</i><br><i>Letters Patent sealed; specification filed by order.</i>                                                                                                                         |
| BOTTOMLEY.<br>25th October 1853.              | 2465. WILLIAM BOTTOMLEY, of North Bierley, in the Parish of Bradford, in the County of York, Designer and Pattern Card Maker, for an invention for—"Improved machinery for hand and power loom weaving, and especially applicable to weaving figured, fancy, and checked goods, with any number of picks, by jacquard-engines." <i>Letters Patent sealed.</i> |
| GOODYEAR.<br>25th October 1853.               | 2466. CHARLES GOODYEAR, of Avenue Road, St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in the manufacture of boots & shoes." <i>Letters Patent sealed.</i>                                                                                                                                                                   |
| GRIMSHAW.<br>25th October 1853.               | 2467. WESTON GRIMSHAW, of Mossley, County Antrim, Ireland, for an invention for—"Improvements in steam-boilers." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                |
| DAVIS.<br>25th October 1853.                  | 2468. MARCUS DAVIS, of 5, Cloudesley Square, Islington, in the County of Middlesex, for an invention for—"Improvements in the treatment of fibrous materials other than flax and hemp."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                |
| AUSTIN.<br>26th October 1853.                 | 2469. EDWIN AUSTIN, of Pembroke Cottages, Caledonian Road, in the County of Middlesex, Master Mariner, for an invention for—"Improvements in surveying and raising sunken vessels, and in apparatus used therein; and in lifting vessels over 'bars' and other obstructions." <i>Letters Patent sealed.</i>                                                   |
| WOODWARD.<br>26th October 1853.               | 2470. GEORGE GOWER WOODWARD, of Lesswels, near Kidderminster, in the County of Worcester, for an invention for—"Improvements in the manufacture of carpets." <i>Letters Patent sealed.</i>                                                                                                                                                                    |
| HEYWORTH.<br>BATTERSBY.<br>26th October 1853. | 2471. RICHARD HEYWORTH, of Cross Hall, near Chorley, in the County of Lancaster, Manufacturer, and THOMAS BATTERSBY, of Cross Hall aforesaid, Overlooker, for an invention for—"Certain improvements in looms for weaving." <i>Letters Patent sealed.</i>                                                                                                     |
| PALMER.<br>26th October 1853.                 | 2472. GEORGE HOLWORTHY PALMER, of Sheffield, in the County of York, Civil Engineer, for an invention for—"Improvements in the construction of air-furnaces for the fusion of steel and other metals, and for economizing fuel." <i>Provisional protection only.</i>                                                                                           |
| HUGHES.<br>26th October 1853.                 | 2473. EDWARD JOSEPH HUGHES, of the City of Manchester, in the County of Lancaster, Patent Agent, for an invention for—"Improvements in machinery or apparatus for sewing or stitching." <i>Letters Patent sealed.</i>                                                                                                                                         |
| PENROSE.<br>26th October 1853.                | 2474. WILLIAM PENROSE, of the Landore Silver Works, near Swansea, in the County of Glamorgan, Assayer, for an invention for—"Improvements in the reduction of silver ores by mixture with other materials." <i>Provisional protection only.</i>                                                                                                               |
| EDWARDS.<br>26th October 1853.                | 2475. DOWNES EDWARDS, of Ravenscliffe, Douglas, Isle of Man, for an invention for—"Improvements in signal apparatus for railways." <i>Letters Patent sealed.</i>                                                                                                                                                                                              |
| O'NEILL.<br>26th October 1853.                | 2476. PATRICK BENIGNUS O'NEILL, of 39, Rue Miromenil, Paris, for an invention for—"Improvements in screw-wrenches."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                                                                    |
| DANCHELL.<br>STARTIN.<br>26th October 1853.   | 2477. FREDERICH LUDEWIG HAHN DANCHELL, of Elm Grove Villas, Acton Green, in the County of Middlesex, Engineer, and WILLIAM STARTIN, of Heathfield Terrace, Turnham Green, in the same County, Engineer, for an invention for—"Improvements in obtaining and applying motive-power." <i>Provisional protection only.</i>                                       |
| LANE.<br>26th October 1853.                   | 2478. URIAH LANE, of North Street, Brighton, in the County of Sussex, for an invention for—"Improvements in measuring and indicating time." <i>Provisional protection only.</i>                                                                                                                                                                               |
| JOLY.<br>26th October 1853.                   | 2479. ROMAIN JOLY, of Gaillon, in the Empire of France, Colorist, for an invention for—"Improvements in dyeing." <i>Provisional protection only.</i>                                                                                                                                                                                                          |



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| DUNN.<br>GOUGH.<br>26th October 1853.                       | 2480. THOMAS DUNN, of Windsor Bridge Iron Works, Pendleton, near Manchester, in the County of Lancaster, Engineer, and WILLIAM GOUGH, of 21, Old Compton Street, Soho, London, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture of veneers and in machinery and apparatus connected therewith."<br><i>Letters Patent sealed.</i>                                            |
| VIZETELLY.<br>26th October 1853.                            | 2481. JAMES THOMAS GEORGE VIZETELLY, of Peterborough Court, in the City of London, Engraver and Printer, for an invention for—"Improvements in producing plates for printing purposes, by which the manipulatory process of engraving is superseded."— <i>Partly a communication.</i><br><i>Letters Patent sealed.</i>                                                                                                 |
| RÉMOND.<br>27th October 1853.                               | 2482. AMÉDÉE FRANÇOIS RÉMOND, of Birmingham, in the County of Warwick, Gentleman, for an invention for—"Improvements in the manufacture of certain kinds of metallic vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                        |
| BLACKWELL.<br>27th October 1853.                            | 2483. THOMAS SEAL BLACKWELL, of Cranbrook, in the County of Kent, Surgeon, for an invention for—"Improvements in apparatus for signalizing and stopping railway-trains."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                                                      |
| RICHARDS.<br>27th October 1853.                             | 2484. RICHARD RICHARDS, of Paddington, in the County of Middlesex, Merchant, for an invention for—"Improvements in apparatus for indicating water in the holds of vessels."<br><i>Provisional protection only.</i>                                                                                                                                                                                                     |
| DAWSON.<br>27th October 1853.                               | 2485. THOMAS DAWSON, of King's Arms Yard, in the City of London, Mechanician, for an invention for—"An improved case or cover for umbrellas, which can also be worn as a garment."<br><i>Provisional protection only.</i>                                                                                                                                                                                              |
| DERING.<br>27th October 1853.                               | 2486. GEORGE EDWARD DERING, of Lockleys, in the County of Hertford, for an invention for—"Improvements in galvanic batteries."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                        |
| VAUGHAN.<br>SCATTERGOOD.<br>GRIMSHAW.<br>27th October 1853. | 2487. WILLIAM VAUGHAN, of Stockport, in the County of Chester, Gentleman, JOHN SCATTERGOOD, of Heaton Norris, in the County of Lancaster, Machinist, and CHARLES GRIMSHAW, of Brinnington, in the County of Chester, Manager, for an invention for—"Certain improvements in healds or harness for weaving, and in the method of and machinery or apparatus for fabricating the same."<br><i>Letters Patent sealed.</i> |
| BISHOP.<br>27th October 1853.                               | 2488. ROBERT BISHOP, of Edinburgh, for an invention for—"Improvements in steam and water valves."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                               |
| DOLBY.<br>27th October 1853.                                | 2489. HENRY DOLBY, of 56, Regent Street, in the County of Middlesex, Heraldic Stationer, for an invention for—"Improvements in embossing-presses."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                              |
| McNAUGHTON.<br>27th October 1853.                           | 2490. WILLIAM McNAUGHTON, of Manchester, in the County of Lancaster, for an invention for—"Improvements in printing yarns or worsteds for weaving carpets, also, in printing carpets, woollen, silk, cotton, and other textile and felted fabrics or fibrous substances."<br><i>Provisional protection only.</i>                                                                                                       |
| LEMONNIER.<br>27th October 1853.                            | 2491. JEAN MARTIN ADOLPHE BAYET LEMONNIER, of Liège, Quai St. Leonard, 103, Belgium, for an invention for—"A new system of weaving by hand."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                    |
| LOYSEL.<br>27th October 1853.                               | 2492. EDWARD LOYSEL, of No. 2, Rue de Grétry, in the City of Paris, Civil Engineer, for an invention for—"An improved coffee-pot."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                              |
| GURNEY.<br>27th October 1853.                               | 2493. JOSEPH GURNEY, of St. James's Street, in the City of Westminster, Tailor, for an invention for—"An improved mode of treating waterproof fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                               |
| BROOMAN.<br>27th October 1853.                              | 2494. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in the manufacture of colored and ornamented fabrics."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                        |
| MACLAREN.<br>28th October 1853.                             | 2495. MALCOLM MACLAREN, of Johnstone, in the County of Renfrew, North Britain, Surgeon, for an invention for—"Improvements in fire-places, grates, or furnaces."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                      |



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| SERVAN.<br>28th October 1853.                       | 2496. ARISTIDE MICHEL SERVAN, of 8, Philpot Lane, in the City of London, for an invention for—"Improvements in treating phormium tenax, flax, and other vegetable fibrous matters."<br><i>Letters Patent sealed.</i>                                                                                        |
| JOHNSON.<br>28th October 1853.                      | 2497. JOHN JOHNSON, of Over Darwen, in the County of Lancaster, Mechanic, for an invention for—"Improvements in looms for weaving terry and other similar fabrics."<br><i>Letters Patent sealed.</i>                                                                                                        |
| WILKINS.<br>28th October 1853.                      | 2498. JOHN WALKER WILKINS, of Ludgate Hill, in the City of London, Electric Telegraph Engineer, for an invention for—"Improvements in obtaining power by electro-magnetism."<br><i>Letters Patent sealed.</i>                                                                                               |
| THOMPSON.<br>28th October 1853.                     | 2499. WILLIAM THOMPSON, of Number 6, Clayton Street, in the Parish of Lambeth, in the County of Surrey, Gentleman, for an invention for—"Instantaneously extinguishing conflagrations in ships' holds, warehouses, and other buildings."<br><i>Provisional protection only.</i>                             |
| NASMYTH.<br>29th October 1853.                      | 2500. JAMES NASMYTH, of Patricroft, in the County of Lancaster, Engineer, for an invention for—"Improvements in the pistons and piston-rods of steam-hammers and pile-drivers, and in the parts in immediate connection therewith."<br><i>Letters Patent sealed.</i>                                        |
| SMITH.<br>29th October 1853.                        | 2501. EDWIN DALTON SMITH, of Number 7, Hertford Street, May Fair, in the County of Middlesex, for an invention for—"An improvement in the construction of railway-carriages, whereby in the event of collision the crushing of the carriages will be prevented."<br><i>Provisional protection only.</i>     |
| BERNARD.<br>29th October 1853.                      | 2502. PETER OWEN BERNARD, of Rood Lane, in the City of London, Wine Merchant, for an invention for—"An improved case or hamper for carrying wine, spirits, and other liquids in bottle."<br><i>Provisional protection only.</i>                                                                             |
| BROOMAN.<br>29th October 1853.                      | 2503. RICHARD ARCHIBALD BROOMAN, of 166, Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in machinery for dressing flax, hemp, and other like fibrous substances."<br><i>A communication.</i><br><i>Letters Patent sealed.</i>                                        |
| GLADSTONE.<br>29th October 1853.                    | 2504. GEORGE JOSEPH GLADSTONE, of 10, Brunswick Terrace, Blackwall, Shipwright and Surveyor of Shipping, for an invention for—"Improvements in apparatus for ascertaining and indicating the depth of water in the hold of a ship or vessel."<br><i>Provisional protection only.</i>                        |
| MACLURE.<br>29th October 1853.                      | 2505. ANDREW MACLURE, of Walbrook, in the City of London, for an invention for—"Improvements in lithographic printing presses."<br><i>Letters Patent sealed.</i>                                                                                                                                            |
| BETTS.<br>29th October 1853.                        | 2506. WILLIAM BETTS, of No. 1, Wharf Road, City Road, in the County of Middlesex, Gentleman, for an invention for—"Certain improvements in machinery for manufacturing metallic capsules."<br><i>Letters Patent sealed.</i>                                                                                 |
| WRIGHT.<br>WRIGHT.<br>ASBURY.<br>31st October 1853. | 2507. JOHN TURNER WRIGHT, of Birmingham, in the County of Warwick, Manufacturer, EDWIN PAYTON WRIGHT, of Birmingham aforesaid, Manufacturer, and WILLIAM ASBURY, of Birmingham aforesaid, Engineer, for an invention for—"An improvement or improvements in mill banding."<br><i>Letters Patent sealed.</i> |
| HALEY.<br>31st October 1853.                        | 2508. JOSEPH HALEY, of the City of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery or apparatus for cutting, boring and shaping metals and other substances."<br><i>Letters Patent sealed.</i>                                                            |
| BANNER.<br>31st October 1853.                       | 2509. EDWARD GREGSON BANNER, of Cranham Hall, in the County of Essex, Gentleman, for an invention for—"Improvements in obtaining and applying motive power."<br><i>Letters Patent sealed.</i>                                                                                                               |
| GÜETHEL.<br>ZIMMERMAN.<br>31st October 1853.        | 2510. CHRISTIAN GÜETHEL and CHARLES MORITZ ZIMMERMAN, both of Philadelphia, in the United States of America, for an invention for—"Improvements in stereoscopes."<br><i>Provisional protection only.</i>                                                                                                    |
| ROVÈRE.<br>31st October 1853.                       | 2511. FELIX PAULIN ROVÈRE, of 4, Wellington Street, Strand, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in joints for tubular drains."<br><i>Letters Patent sealed.</i>                                                                                                  |
| PARSONS.<br>31st October 1853.                      | 2512. PERCEVAL MOSES PARSONS, of Duke Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"Certain improvements in the switches and crossings of railways."<br><i>Letters Patent sealed.</i>                                                                                  |



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| GRAY.<br>31st October 1853.                    | 2513. JOHN GRAY, of the City of Dublin, Medical Doctor and Newspaper Proprietor, for an invention for—"A self-acting flushing apparatus applicable to sanitary purposes."<br><i>Letters Patent sealed.</i>                                                                                                                |
| HAMILTON.<br>31st October 1853.                | 2514. GEORGE HAMILTON, of Paisley, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in spreading or distributing starch, gum, and other semi-fluid matters."<br><i>Letters Patent sealed.</i>                                                                                        |
| COUBROUGH.<br>31st October 1853.               | 2515. ANTHONY PARK COUBROUGH, of Blanesfield, in the County of Stirling, North Britain, Calico Printer, for an invention for—"Improvements in printing textile fabrics and other surfaces."<br><i>Letters Patent sealed.</i>                                                                                              |
| BROWN.<br>31st October 1853.                   | 2516. JOHN BROWN, of Darlington, in the County of Durham, Mining Engineer, for an invention for—"Improvements in the construction of wagons."<br><i>Letters Patent sealed.</i>                                                                                                                                            |
| ASSANTI.<br>31st October 1853.                 | 2517. DAMIANO ASSANTI, of Upper Berkeley Street, in the County of Middlesex, Gentleman, for an invention for—"A new or improved cooling and freezing mixture."<br><i>Letters Patent sealed.</i>                                                                                                                           |
| RESTELL.<br>31st October 1853.                 | 2518. RICHARD RESTELL, of Croydon, in the County of Surrey, Watch & Clock Maker, for an invention for—"Improvements in warming conservatories, greenhouses, and other buildings."<br><i>Letters Patent sealed.</i>                                                                                                        |
| PECHOIN.<br>BARADES.<br>31st October 1853.     | 2519. CELESTIN PECHOIN, Chymist, and EUGÈNE PECHOIN BARADES, Soap Manufacturer, both of La Chapelle St. Denis, in the Empire of France, for an invention for—"Improvements in utilizing the saponaceous matters contained in the waste waters of woollen and other manufactories."<br><i>Provisional protection only.</i> |
| BOTTOMLEY.<br>1st November 1853.               | 2520. JOHN BOTTOMLEY, of Bradford, in the County of York, Manufacturer, for an invention for—"Improvements in ornamenting textile fabrics."<br><i>Provisional protection only.</i>                                                                                                                                        |
| CROWLEY.<br>1st November 1853.                 | 2521. JOHN CROWLEY, of Sheffield, in the County of York, Iron Founder, for an invention for—"Improvements in the construction of ovens and furnaces."<br><i>Letters Patent sealed.</i>                                                                                                                                    |
| LOMAS.<br>1st November 1853.                   | 2522. SAMUEL LOMAS, of the City of Manchester, Manager, for an invention for—"Improvements in machinery for spinning and doubling silk."<br><i>Letters Patent sealed.</i>                                                                                                                                                 |
| HANSOR.<br>1st November 1853.                  | 2523. JAMES HANSOR, of Wandsworth Road, in the County of Surrey, Chemist, for an invention for—"Improvements in the manufacture of illuminating gas."<br><i>Provisional protection only.</i>                                                                                                                              |
| NEWTON.<br>1st November 1853.                  | 2524. MARK NEWTON, of Tottenham, in the County of Middlesex, Builder, for an invention for—"Certain improvements in the construction of carriages, and in the means of preventing the overturning of the same when horses take fright."<br><i>A communication. Letters Patent sealed.</i>                                 |
| ELLIOT.<br>1st November 1853.                  | 2525. ARTHUR ELLIOT, of West Houghton, in the County of Lancaster, Mechanic, for an invention for—"Improvements in looms for weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                   |
| WHITEHEAD.<br>WHITEHEAD.<br>1st November 1853. | 2526. JOHN WHITEHEAD and THOMAS WHITEHEAD, both of Leeds, in the County of York, Machine and Tool Makers, for an invention for—"Certain improvements in cutting tools and in the working of iron, brass, and other metals, and wood and other materials."<br><i>Letters Patent sealed.</i>                                |
| TYLOR.<br>1st November 1853.                   | 2527. HENRY TYLOR, of the firm of Tylor and Pace, of Queen Street, in the City of London, Manufacturers, for an invention for—"An improved chair-bedstead."<br><i>Letters Patent sealed.</i>                                                                                                                              |
| CHESTERMAN.<br>1st November 1853.              | 2528. JAMES CHESTERMAN, of Sheffield, in the County of York, Machinist, for an invention for—"Improvements in hardening and tempering steel, and in grinding, glazing, buffing, and brushing steel and other metallic articles."<br><i>Letters Patent sealed.</i>                                                         |
| PALMER.<br>1st November 1853.                  | 2529. WILLIAM RUSSELL PALMER, of the City and State of New York, United States of America, for an invention for—"Improvements in the construction of spike threshing-machines, whereby all liability to and danger of accident in their use is removed and prevented."<br><i>Provisional protection only.</i>             |



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| BAUER.<br>1st November 1853.            | 2530. JOSEPH BAUER, Captain to His Majesty the Emperor of Austria's 57th Regiment of Foot, a native of Vienna, in Austria, presently in garrison at Prague, in Bohemia, for an invention for—"Cultivating and digging the soil by means of a steam digging and harrowing machine." <i>Letters Patent sealed.</i>                                                                                                                 |
| HEYWOOD.<br>1st November 1853.          | 2531. JAMES HEYWOOD, of Ratcliffe Bridge, in the County of Lancaster, Dyer, for an invention for—"Certain improvements in machinery or apparatus for printing yarns." <i>Provisional protection only.</i>                                                                                                                                                                                                                        |
| BALE.<br>LUCAS.<br>1st November 1853.   | 2532. THOMAS SANDERS BALE, of Cauldon Place, in the County of Stafford, China Manufacturer, and DANIEL LUCAS, of Stoke-upon-Trent, in the same County, Artist, for an invention for—"Improvements in ornamenting the materials of and articles manufactured in pottery, as bricks, tiles, slabs, &c. and also in glass, slate, stone, and other plastic substances." <i>Letters Patent sealed; specification filed by order.</i> |
| ARCHBUTT.<br>1st November 1853.         | 2533. ROBERT ARCHBUTT, trading under the style or firm of Worssam & Co, of King's Road, Chelsea, in the County of Middlesex, Engineers, for an invention for—"Improvements in wood-cutting machinery." <i>Provisional protection only.</i>                                                                                                                                                                                       |
| TAYLOR.<br>2nd November 1853.           | 2534. WILLIAM TAYLOR, of Newport Pagnell, in the County of Bucks, Chemist, & Soda-water Manufacturer, for an invention for—"Stopping of bottles containing aerated liquids." <i>Provisional protection only.</i>                                                                                                                                                                                                                 |
| GATTY.<br>2nd November 1853.            | 2535. FREDERICK ALBERT GATTY, of Accrington, in the County of Lancaster, Manufacturing Chemist, for an invention for—"An improved bath for heating and distilling." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                |
| SMITH.<br>2nd November 1853.            | 2536. EDWIN DALTON SMITH, of No. 7, Hertford Street, May Fair, in the County of Middlesex, for an invention for—"A new buffer-break for railway carriages." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                        |
| GILBEE.<br>2nd November 1853.           | 2537. WILLIAM ARMAND GILBEE, of the English and Foreign Patent Office, 4, South St, Finsbury, London, & 39, Rue de l'Echiquier, Paris, Gentleman, for an invention for—"An improved apparatus for levelling."— <i>A communication.</i> <i>Provisional protection only.</i>                                                                                                                                                       |
| WARD.<br>2nd November 1853.             | 2538. EDWARD WARD, of Potton, in the County of Bedfordshire, Coach Builder, for an invention for—"An improvement in carriage-axles."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                      |
| MALTBY.<br>2nd November 1853.           | 2539. WILLIAM MALTBY, of Camberwell, in the County of Surrey, for an invention for—"An improved system or arrangement for preventing collisions or accidents on railways." <i>Provisional protection only.</i>                                                                                                                                                                                                                   |
| WILLIS.<br>MUSTO.<br>2nd November 1853. | 2540. BRAND WILLIS and JOHN MUSTO, both of the East London Iron Works, Mile End, in the County of Middlesex, Engineers, for an invention for—"Improvements in rotatory pumps." <i>Provisional protection only.</i>                                                                                                                                                                                                               |
| LIPSCOMBE.<br>2nd November 1853.        | 2541. FREDERICK LIPSCOMBE, of 233, Strand, in the County of Middlesex, Water-filter Manufacturer, for an invention for—"Improvements in obtaining steam power and in regulating the same." <i>Letters Patent sealed.</i>                                                                                                                                                                                                         |
| BUTTERWORTH.<br>2nd November 1853.      | 2542. BENJAMIN BUTTERWORTH, of Calder Cottage, Caldershaw, near Rochdale, in the County of Lancaster, Grocer, for an invention for—"Improvements in combining oil with other liquids, for the obtainment of a new lubricating compound."— <i>Partly a communication.</i> <i>Letters Patent sealed; no specification filed.</i>                                                                                                   |
| BRIERLY.<br>2nd November 1853.          | 2543. HENRY BRIERLY, of Chorley, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in machinery or apparatus for spinning and doubling cotton and other fibrous substances." <i>Letters Patent sealed.</i>                                                                                                                                                                                            |
| HOWARD.<br>2nd November 1853.           | 2544. JAMES HOWARD, of Bedford, Ironfounder, for an invention for—"Improvements in horse-rakes and harrows." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                       |
| HODGES.<br>2nd November 1853.           | 2545. RICHARD EDWARD HODGES, of Southampton Row, Russell Square, in the County of Middlesex, for an invention for—"An improvement in fastening the ends of springs made of india-rubber." <i>Letters Patent sealed.</i>                                                                                                                                                                                                          |
| ILES.<br>2nd November 1853.             | 2546. CHARLES ILES, of Peel Works, Birmingham, in the County of Warwick, for an invention for—"Improvements in metal bedsteads." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                   |



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| <p>M<sup>C</sup>GREGOR.<br/>3rd November 1853.</p> <p>WOOD.<br/>3rd November 1853.</p> <p>MOFFAT.<br/>3rd November 1853.</p> <p>REEVES.<br/>3rd November 1853.</p> <p>IRVING.<br/>3rd November 1853.</p> <p>DUPPA.<br/>3rd November 1853.</p> <p>PATTERSON.<br/>3rd November 1853.</p> <p>HINDLE.<br/>3rd November 1853.</p> <p>DUNCAN.<br/>BOYD.<br/>BARKER.<br/>3rd November 1853.</p> <p>GODDARD.<br/>3rd November 1853.</p> <p>TUCK.<br/>3rd November 1853.</p> <p>SCOTT.<br/>4th November 1853.</p> <p>NASMYTH.<br/>4th November 1853.</p> <p>HINDMAN.<br/>4th November 1853.</p> <p>GINTY.<br/>4th November 1853.</p> <p>CROSSLAND.<br/>4th November 1853.</p> <p>RACSTER.<br/>4th November 1853.</p> | <p>2547. PETER M<sup>C</sup>GREGOR, of the City of Manchester, Machine Maker, for an invention for—"Improvements in machinery for spinning and doubling."<br/><i>Letters Patent sealed.</i></p> <p>2548. WILLIAM WOOD, of 126, Chancery Lane, in the City of London, Civil Engineer, for an invention for—"Abstracting and condensing smoke arising from steam-engines and other furnaces, and obtaining a supply of air for supporting the combustion of the fuel in such furnaces, thereby superseding the necessity of chimney shafts and funnels."<br/><i>Provisional protection only.</i></p> <p>2549. JOHN MOFFAT, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in candlesticks."—<i>Partly a communication.</i><br/><i>Letters Patent sealed.</i></p> <p>2550. CHARLES REEVES, junior, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in the manufacture of swords, bayonets, and sword-bayonets."<br/><i>Provisional protection only.</i></p> <p>2551. THOMAS IRVING, of Dalton, in the Parish of Kirkeaton, in the County of York, for an invention for—"Improvements in preparing wool for spinning."<br/><i>Letters Patent sealed.</i></p> <p>2552. BRYAN EDWARD DUPPA, of Malmaynes Hall, in the County of Kent, Gentleman, for an invention for—"Improvements in colouring photographic pictures."<br/><i>Letters Patent sealed.</i></p> <p>2553. WILLIAM PATTERSON, of Edinburgh, Scotland, Cabinet Maker, for an invention for—"Improvements in chairs."<br/><i>Provisional protection only.</i></p> <p>2554. PETER HINDLE, of Ramsbottom, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in power looms for weaving."<br/><i>Letters Patent sealed.</i></p> <p>2555. GEORGE DUNCAN and JOHN BOYD, both of Liverpool, in the County of Lancaster, Patent Cask Manufacturers, and JOHN BARKER, of Knotty Ash, near Liverpool aforesaid, Doctor of Medicine, for an invention for—"Improvements in casks and in machinery or apparatus for the manufacture of casks."<br/><i>Letters Patent sealed.</i></p> <p>2556. EBENEZER GODDARD, of Ipswich, in the County of Suffolk, Gas Engineer, for an invention for—"Improvements in gas burners."<br/><i>Letters Patent sealed.</i></p> <p>2557. JOSEPH HENRY TUCK, of Pall Mall, in the County of Middlesex, Engineer, for an invention for—"Improved machinery for obtaining and applying motive-power, and for raising and forcing fluids."<br/><i>Letters Patent sealed; no specification filed.</i></p> <p>2558. JAMES SCOTT, residing in Shrewsbury, in the County of Salop, Carriage &amp; Wagon Inspector of the Shrewsbury &amp; Birmingham Railway Co<sup>r</sup>, for an invention for—"An improved apparatus for shifting carriages, waggons, engines, and other vehicles on railways &amp; tramways."<br/><i>Letters Patent sealed.</i></p> <p>2559. GEORGE NASMYTH, of 3, Brabant Court, Philpot Lane, in the City of London, for an invention for—"Improvements in the construction of steam-boiler and other furnaces."<br/><i>Letters Patent sealed.</i></p> <p>2560. WILLIAM HINDMAN, of the City of Manchester, in the County of Lancaster, for an invention for—"Improvements in the construction of steam-boilers, and in the mode or method of fixing the same."<br/><i>Provisional protection only.</i></p> <p>2561. WILLIAM GILBERT GINTY, of the City of Manchester, in the County of Lancaster, Civil Engineer, for an invention for—"Improvements in the mode of manufacturing the combustible gases resulting from the decomposition of water or steam, and in the construction of apparatus connected therewith."<br/><i>Letters Patent sealed.</i></p> <p>2562. WILLIAM CROSSLAND, of Hulme, in the County of Lancaster, Engineer, for an invention for—"Improvements in apparatus for governing the speed of steam and other motive-power engines."<br/><i>Letters Patent sealed.</i></p> <p>2563. WILLIAM RACSTER, of the Royal Military Academy, Woolwich, in the County of Kent, Mathematical Master, for an invention for—"Improvements in the construction and arrangement of the buffing apparatus of railway carriages, and in the mode of applying the buffer and draw springs to such carriages."<br/><i>Letters Patent sealed.</i></p> |
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| NEWTON.<br>4th November 1853.            | 2564. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for crushing ores, and separating therefrom gold, silver, or other metals contained therein."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                   |
| HIGGINBOTTOM.<br>4th November 1853.      | 2565. JOHN HARTLEY HIGGINBOTTOM, Clerk of Works to the Local Board of Health, Ashby-de-la-Zouch, in the County of Leicester, for an invention for—"Improvements in water-closets, and in the apparatus connected therewith."<br><i>Provisional protection only.</i>                                                                                                                                                                       |
| PRATT.<br>4th November 1853.             | 2566. HENRY PRATT, of Boughton Street, in the City of Worcester, for an invention for—"Improvements in kneading dough, and which said improvements are also applicable to the kneading or beating of clay, loam, or other plastic materials."<br><i>Letters Patent sealed.</i>                                                                                                                                                            |
| FOSTER.<br>4th November 1853.            | 2567. WILLIAM FOSTER, of Lister Terrace, Bradford, in the County of York, Manufacturer, for an invention for—"Improvements in looms for weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                        |
| JOHNSON.<br>4th November 1853.           | 2568. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the manufacture of malleable iron, which improvements are also applicable to the manufacture of other malleable metals."— <i>A communication from Clement Desormes, of Lyons, in the Empire of France, Mechanical Engineer.</i><br><i>Provisional protection only.</i> |
| SMITH.<br>5th November 1853.             | 2569. JOHN SMITH, Machine Maker, of the Albion Works, Bradford, in the West Riding of Yorkshire, for an invention for—"Improvements in millstones for grinding corn, seeds, or minerals."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                |
| NICKLIN.<br>5th November 1853.           | 2570. JOHN BANKS NICKLIN, of Bartholomew Lane, in the City of London, and Richmond, in the County of Surrey, Merchant, for an invention for—"Improved gelatinous or glutinous compounds for lubricating railway and other machinery."<br><i>Letters Patent sealed.</i>                                                                                                                                                                    |
| HARRISON.<br>5th November 1853.          | 2571. SAMUEL HARRISON, of Crewe, in the County of Chester, Engineer, for an invention for—"Improvements in and applicable to steam-engines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                             |
| HYDE.<br>5th November 1853.              | 2572. JOHN HYDE, of Sheffield, in the County of York, for an invention for—"Improvements in furniture-casters."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                          |
| CARR.<br>HORSLEY.<br>5th November 1853.  | 2573. CHARLES CARR, of Seghill, in the County of Northumberland, Mining Engineer, and WILLIAM KYLE HORSLEY, of the same place, Engineer, for an invention for—"Improvements in steam-machinery and pumps for lifting water from mines and other places."<br><i>Letters Patent sealed.</i>                                                                                                                                                 |
| JEARRAD.<br>5th November 1853.           | 2574. ROBERT WILLIAM JEARRAD, of 17, Upper Eccleston Place, Eccleston Square, for an invention for—"Improvements in steam-boiler and other furnaces."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                    |
| RUBERY.<br>5th November 1853.            | 2575. JOHN RUBERY, of Birmingham, in the County of Warwick, for an invention for—"Improvements in the manufacture of open caps for sticks of umbrellas and parasols."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                    |
| BARLOW.<br>SETTLE.<br>5th November 1853. | 2576. JAMES BARLOW, of Bolton-le-Moors, in the County of Lancaster, Manufacturer, and THOMAS SETTLE, of the same place, Manager, for an invention for—"Certain improvements in power-looms for weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                 |
| JOHNSON.<br>5th November 1853.           | 2577. WILLIAM BECKETT JOHNSON, of Manchester, in the County of Lancaster, Manager for Messrs Ormerod and Son, Engineers and Iron-founders, for an invention for—"Improvements in steam-engines, and in apparatus for indicating the pressure of steam."<br><i>Letters Patent sealed.</i>                                                                                                                                                  |
| KESTERTON.<br>5th November 1853.         | 2578. EDWIN KESTERTON, of Long Acre, in the County of Middlesex, Carriage Builder, for an invention for—"Improvements in springs for carriages."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                         |



- PERSHOUSE.  
MORRIS.  
7th November 1853.
2579. HENRY PERSHOUSE, of Birmingham, in the County of Warwick, Manufacturer, and TIMOTHY MORRIS, of Birmingham aforesaid, Manufacturer, for an invention for—"An improvement or improvements in the deposition of metals and metallic alloys."  
*Letters Patent sealed.*
- TODD.  
7th November 1853.
2580. JOHN TODD, of Fish Street Hill, in the City of London, Engineer, for an invention for—"Improvements in the spindles and bearings of lathes and drilling-machines, and in other spindles & bearings."  
*Provisional protection only.*
- FALCONI.  
7th November 1853.
2581. MARINO LOUIS JOSEPH CHRISTOPHE VINCENT FALCONI, of Paris, France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"A certain composition for the preservation of the dead."  
*Letters Patent sealed.*
- WOOD.  
7th November 1853.
2582. THOMAS WOOD, of Rumford Street, Oxford Street, Manchester, Engineer, for an invention for—"Improvements in centrifugal machines."  
*Provisional protection NOT granted.*
- GRINDROD.  
HUNTER.  
7th November 1853.
2583. JONATHAN GRINDROD, of Liverpool, in the County of Lancaster, Consulting Engineer, and ALEXANDER HUNTER, of the same place, Engineer, for an invention for—"Improvements in steam-engines."  
*Letters Patent sealed.*
- WIGLESWORTH.  
7th November 1853.
2584. HENRY WIGLESWORTH, of Newbury, in the County of Berks, Bachelor of Medicine, for an invention for—"Improvements in connecting together or coupling railway carriages."  
*Letters Patent sealed.*
- ROUGHTON.  
7th November 1853.
2585. ROBERT ROUGHTON, of Woolwich, in the County of Kent, Engineer in the Royal Navy, for an invention for—"An improvement in steam-boilers, which is applicable to other vessels for containing compressed air, vapour, or gas."  
*Letters Patent sealed.*
- WALKER.  
7th November 1853.
2586. THOMAS WALKER, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in signal apparatus for the prevention of accidents on railways."  
*Letters Patent sealed.*
- NEWTON.  
7th November 1853.
2587. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Certain improved means for preventing the fraudulent abstraction of property."  
*A communication. Letters Patent sealed.*
- ONIONS.  
BROMHEAD.  
8th November 1853.
2588. JOHN ONIONS and SAMUEL BROMHEAD, both of Mariborough Estate, Peckham, Engineers, for an invention for—"Certain improvements in machinery used for the manufacture of paper & papier-mâché."  
*Provisional protection only.*
- GARDINER.  
WYNNE.  
8th November 1853.
2589. JOHN GARDINER, of Great Marlow, in the County of Buckingham, Ironmonger, and WILLIAM WATKIN WYNNE, of the same place, Brewer, for an invention for—"An improved construction of gas-stove."  
*Provisional protection only.*
- GRAHAM.  
8th November 1853.
2590. EDMUND HUGH GRAHAM, of the State of Maine, of the United States of America, for an invention for—"New and useful improvements in fire-arms."  
*Letters Patent sealed.*
- CHAMBERLAIN.  
8th November 1853.
2591. HUMPHREY CHAMBERLAIN, of Kempsey, near Worcester, for an invention for—"Improvements in the manufacture of bricks and tubes or tiles."  
*Letters Patent sealed.*
- PARRATT.  
8th November 1853.
2592. GEORGE FREDERICK PARRATT, of 27, Victoria Street, Piccadilly, for an invention for—"Improvements in life-rafts."  
*Letters Patent sealed.*
- HAYWARD.  
8th November 1853.
2593. EDWARD LAMBERT HAYWARD, of 196, Blackfriars Road, for an invention for—"Improvements in the roses of door and other locks."  
*Provisional protection only.*
- JOHNSON.  
8th November 1853.
2594. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in machinery for combing and preparing wool and other fibrous materials."  
*A communication from Henri Jules Alphonse Paris, of Paris, in the Empire of France, Machinist. Letters Patent sealed.*
- SHEPHERD.  
8th November 1853.
2595. GEORGE SHEPHERD, of 39, King William Street, in the City of London, Civil Engineer, for an invention for—"Certain improvements in the construction of railways."  
*Letters Patent sealed.*



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| DANGERFIELD.<br>DANGERFIELD.<br>9th November 1853. | 2596. BENJAMIN DANGERFIELD, of West Bromwich, in the County of Stafford, Engineer, and BENJAMIN DANGERFIELD, junior, of West Bromwich aforesaid, Engineer, for an invention for—"Improvements in the construction of steam-boilers."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                       |
| DUNN.<br>BOWMAN.<br>DUNN.<br>9th November 1853.    | 2597. THOMAS DUNN, of the Windsor Bridge Iron Works, Pendleton, in the County of Lancaster, Engineer, JAMES BOWMAN, of Plaistow, in the County of Essex, Engineer, and JOSEPH DUNN, of Bellevue Terrace, in Pendleton aforesaid, Millwright, for an invention for—"Improvements in machinery for raising, moving, and lowering heavy bodies."<br><i>Letters Patent sealed.</i>                                                                                                                    |
| DRIEU.<br>9th November 1853.                       | 2598. JEROME ANDRÉ DRIEU, of Patricroft, in the County of Lancaster, Machinist, for an invention for—"Improvements in machinery for cutting velveteens and certain other fabrics to produce a piled surface."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                    |
| BROWN.<br>9th November 1853.                       | 2599. JOHN BROWN, of Darlington, in the County of Durham, Mining Engineer, for an invention for—"Improvements in coke-ovens."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                              |
| DICKS.<br>9th November 1853.                       | 2600. WILLIAM DICKS, of Floore, in the County of Northampton, Smith, for an invention for—"Improvements in wheels for carriages."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                          |
| ATKINS.<br>10th November 1853.                     | 2601. JAMES ATKINS, of Birmingham, in the County of Warwick, Writing Clerk, for an invention for—"An improvement or improvements in ash-pits for grates."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                        |
| PIDDING.<br>10th November 1853.                    | 2602. WILLIAM PIDDING, of Tachbrook Street, Pimlico, in the County of Middlesex, Gentleman, for an invention for—"Improvements in the manufacture of fabrics made of silk, cotton, wool, flax, hemp, straw, grasses, fibres, mohair and other hair, spun-glass, and enamelled, glazed, or plain wire, and in the application of some of those materials; and also in the machinery or apparatus connected with such manufacture."<br><i>Provisional protection only.</i>                          |
| RODGER.<br>10th November 1853.                     | 2603. WILLIAM RODGER, Lieutenant in the Royal Navy, of 9, Shawfield Street, King's Road, Chelsea, for an invention for—"Improvements in anchors."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                |
| STEVENS.<br>10th November 1853.                    | 2604. JAMES STEVENS, of Darlington Works, Southwark Bridge Road, for an invention for—"Improvements in the steps or bearings of the axles or shafts of gas-meters."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                        |
| FOLSOM.<br>10th November 1853.                     | 2605. SAMUEL MEAD FOLSOM, of the State of Massachusetts, of the United States of America, for an invention for—"A new or improved instrument for ironing clothes or various other articles."— <i>A communication from Jeremiah W. Brown, a resident of the United States of America, who has applied for a Patent in the United States, and assigned all his right and interest thereto to the said Samuel Mead Folsom, to whom such Patent is to be issued.</i><br><i>Letters Patent sealed.</i> |
| FONTAINE-MOREAU.<br>10th November 1853.            | 2606. PETER ARMAND LE COMTE DE FONTAINE-MOREAU, of the English and Foreign Patent Office, 4, South Street, Finsbury, London, & 39, Rue de l'Echiquier, Paris, France, for an invention for—"Improvements in preventing accidents on railways, also in shifting and lifting railway-carriages."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                                                    |
| PARKER.<br>11th November 1853.                     | 2607. WILLIAM PARKER, of Birmingham, in the County of Warwick, Wire-worker, for an invention for—"An improvement or improvements in bearings for machinery."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                               |
| STURM.<br>11th November 1853.                      | 2608. SALOMON STURM, of Carpenter's Buildings, in the City of London, and of Vienna, in the Empire of Austria, Optician, for an invention for—"Machinery for the manufacture of optical lenses."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                 |
| DE MONTFERRIER.<br>11th November 1853.             | 2609. ALEXANDER ANDRÉ VICTOR SARRAZIN DE MONTFERRIER, of Paris, France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"A new rotatory steam-engine."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                 |
| BANNER.<br>11th November 1853.                     | 2610. EDWARD GREGSON BANNER, of Cranham Hall, in the County of Essex, Gentlemen, for an invention for—"Improvements in saddlery and harness."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                    |



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| WALKER.<br>11th November 1853.              | 2611. HENRY WALKER, of Gresham Street, West, in the City of London, Manufacturer, for an invention for—"Improvements in means of communication from one part of a railway train to another."<br><i>Provisional protection only.</i>                                                                                                  |
| WILLIS.<br>11th November 1853.              | 2612. JAMES WILLIS, of Wallingford, in the County of Berks, Harness-maker, for an invention for—"Improvements in buckles."<br><i>Letters Patent sealed.</i>                                                                                                                                                                          |
| DRYBURGH.<br>11th November 1853.            | 2613. RICHARD DRYBURGH, of Leith, in the County of Edinburgh, Scotland, Cooper, for an invention for—"Improvements in the means of holding staves while being cut."<br><i>Letters Patent sealed.</i>                                                                                                                                 |
| STEEL.<br>11th November 1853.               | 2614. WILLIAM STEEL, of Glasgow, in the County of Lanark, North Britain, Brewer, for an invention for—"Improvements in machinery or apparatus for mashing malt."<br><i>Letters Patent sealed.</i>                                                                                                                                    |
| PLATT.<br>11th November 1853.               | 2615. JOHN PLATT, of Oldham, in the County of Lancaster, Machinist, for an invention for—"Certain improvements in apparatus or machines for forging, drawing, moulding or forming spindles, rollers, bolts, and various other articles in metal."<br><i>Letters Patent sealed; no specification filed.</i>                           |
| KILSHAW.<br>HACKING.<br>11th November 1853. | 2616. HENRY KILSHAW, of Birch, near Middleton, in the County of Lancaster, Manager, and RICHARD HACKING, of Bury, in the same County, Machinist, for an invention for—"Certain improvements in machinery or apparatus for spinning cotton, and other fibrous substances."<br><i>Letters Patent sealed.</i>                           |
| EASTON.<br>11th November 1853.              | 2617. ABEL EASTON, of Barnard's Inn, in the County of Middlesex, Gentleman, for an invention for—"An improved lamp."<br><i>Provisional protection only.</i>                                                                                                                                                                          |
| EASTON.<br>11th November 1853.              | 2618. ABEL EASTON, of Barnard's Inn, in the County of Middlesex, Gentleman, for an invention for—"A liquid chemical compound for the production of artificial light."<br><i>Provisional protection only.</i>                                                                                                                         |
| DICKSON.<br>11th November 1853.             | 2619. JAMES HILD DICKSON, of Evelyn Street, Lower Road, Deptford, in the County of Kent, Flax Manufacturer & Flax Machinist, for an invention for—"Improvements in the process of preparing flax or similar fibrous material, and rendering it fit for spinning & weaving."<br><i>Letters Patent sealed.</i>                         |
| BROOMAN.<br>11th November 1853.             | 2620. RICHARD ARCHIBALD BROOMAN, of Fleet Street, in the City of London, Patent Agent, for an invention for—"Improvements in heating and lighting."— <i>A communication.</i><br><i>Provisional protection NOT granted.</i>                                                                                                           |
| LEVIEN.<br>11th November 1853.              | 2621. JOHAN MARTIN LEVIEN, of Davies Street, Grosvenor Square, in the County of Middlesex, Upholsterer, for an invention for—"An improved construction of expanding table."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                |
| BARKER.<br>12th November 1853.              | 2622. STEPHEN BARKER, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in shaping metals."<br><i>Letters Patent sealed.</i>                                                                                                                                               |
| D'ELANDE.<br>12th November 1853.            | 2623. FRANÇOIS AMAND DÉLANDE, of Paris, France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"A new metallic composition."<br><i>Letters Patent sealed.</i>                                                                                                                                             |
| KILSHAW.<br>HACKING.<br>12th November 1853. | 2624. HENRY KILSHAW, of Birch, near Middleton, in the County of Lancaster, Manager, and RICHARD HACKING, of Bury, in the same County, Machinist, for an invention for—"Improvements in machinery or apparatus to be employed in the preparation of cotton & other fibrous substances for spinning."<br><i>Letters Patent sealed.</i> |
| GEDGE.<br>12th November 1853.               | 2625. JOHN GEDGE, of 4, Wellington Street, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the means of consuming or otherwise preventing the escape of smoke from flues or other smoke-vents."— <i>A communication.</i><br><i>Provisional protection only.</i>                              |
| GEDGE.<br>12th November 1853.               | 2626. JOHN GEDGE, of No. 4, Wellington Street, Strand, in the County of Middlesex, Patent Agent, for an invention for—"Improvements in the manufacture of metallic compounds."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                       |
| AUSTIN.<br>12th November 1853.              | 2627. WILLIAM AUSTIN, of 27, Holywell Street, Westminster, for an invention for—"Improvements in the manufacture of casks."<br><i>Letters Patent sealed.</i>                                                                                                                                                                         |



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| DE LA RUE.<br>12th November 1853.           | 2628. THOMAS DE LA RUE, of Bunhill Row, for an invention for—"An improvement in the manufacture of paper."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                  |
| AUSTIN.<br>12th November 1853.              | 2629. WILLIAM AUSTIN, of 27, Holywell Street, Westminster, for an invention for—"Improvements in apparatus for trapping passages into sewers or drains."<br><i>Letters Patent sealed.</i>                                                                                                                                                    |
| BUSSON.<br>12th November 1853.              | 2630. CONSTANT BUSSON, Manufacturer, of Paris, in the French Empire, for an invention for—"Certain improvements in finger-keyed musical instruments.—A communication."<br><i>Provisional protection only.</i>                                                                                                                                |
| HILL.<br>COTTRILL.<br>14th November 1853.   | 2631. JOHN SINGLETON COPLEY HILL, of Birmingham, in the County of Warwick, Gentleman, and EDWIN COTTRILL, of Birmingham aforesaid, Manufacturer, for an invention for—"An improvement or improvements in stamps and presses, a part or parts of which improvements may be applied to other purposes."<br><i>Provisional protection only.</i> |
| HADFIELD.<br>14th November 1853.            | 2632. WILLIAM HADFIELD, of the City of Manchester, Spinner and Manufacturer, for an invention for—"Certain improvements in looms for weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                              |
| COTTAM.<br>14th November 1853.              | 2633. SAMUEL FLETCHER COTTAM, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery for spinning, doubling, and reeling cotton and other fibrous substances."<br><i>Provisional protection only.</i>                                                                                          |
| WILLIS.<br>14th November 1853.              | 2634. HENRY WILLIS, of Manchester Street, in the County of Middlesex, Organ Builder, for an invention for—"Improvements in the construction of organs and free-reed instruments."<br><i>Letters Patent sealed.</i>                                                                                                                           |
| CUNINGHAME.<br>14th November 1853.          | 2635. ALEXANDER CUNINGHAME, of Glasgow, in the County of Lanark, North Britain, Ironmaster, for an invention for—"Improvements in the manufacture or production of sulphuric acid."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                 |
| GRAY.<br>14th November 1853.                | 2636. MATTHEW GRAY, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in web-forks for power-looms."<br><i>Letters Patent sealed.</i>                                                                                                                                                         |
| COUBROUGH.<br>14th November 1853.           | 2637. ANTHONY PARK COUBROUGH, of Blanefield, in the County of Stirling, North Britain, Calico-printer, for an invention for—"Improvements in bleaching apparatus."<br><i>Provisional protection only.</i>                                                                                                                                    |
| ANDERSON.<br>MURPHY.<br>14th November 1853. | 2638. WILLIAM ANDERSON, junior, and ALEXANDER WARK MURPHY, of Glasgow, in the County of Lanark, North Britain, Manufacturers, for an invention for—"Improvements in that class of ornamental fabrics usually termed 'Ayrshire sewed work.'"<br><i>Provisional protection only.</i>                                                           |
| SMITH.<br>14th November 1853.               | 2639. WILLIAM SMITH, of Mauchline, in the County of Ayr, North Britain, Gentleman, for an invention for—"Improvements in ruling ornamental figures."<br><i>Letters Patent sealed.</i>                                                                                                                                                        |
| FITZGERALD.<br>14th November 1853.          | 2640. MICHAEL FITZGERALD, of Sorrel Island, in the County of Clare, Esquire, for an invention for—"An improved means or method of communicating between different parts of a railway-train."<br><i>Provisional protection only.</i>                                                                                                          |
| DE BERGUE.<br>14th November 1853.           | 2641. CHARLES DE BERGUE, of Dowgate Hill, in the City of London, Engineer, for an invention for—"An improvement or improvements in machinery or apparatus for removing patterns from moulds for castings."<br><i>Letters Patent sealed.</i>                                                                                                  |
| CATTERSON.<br>15th November 1853.           | 2642. JOHN JOSIAS CATTERSON, of Islington, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in carriage-springs."<br><i>Letters Patent sealed.</i>                                                                                                                                                             |
| BLANK.<br>15th November 1853.               | 2643. CHARLES EMILIUS BLANK, of Trump Street, in the City of London, Merchant, for an invention for—"Improvements in winding yarn into hanks."—A communication.<br><i>Letters Patent sealed.</i>                                                                                                                                             |
| LIDDELL.<br>15th November 1853.             | 2644. JOHN LIDDELL, of Glasgow, in the County of Lanark, Merchant, or an invention for—"An improvement or improvements in power loom-weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                              |



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| <p>CAMERON.<br/>NAPIER.<br/>15th November 1853.</p> <p>THWAITES.<br/>HERAPATH.<br/>15th November 1853.</p> <p>DELCAMBRE.<br/>15th November 1853.</p> <p>FRY.<br/>15th November 1853.</p> <p>HALKETT.<br/>16th November 1853.</p> <p>ELLERTHORPE.<br/>16th November 1853.</p> <p>WAYTE.<br/>16th November 1853.</p> <p>MUSGRAVE.<br/>MUSGRAVE.<br/>MUSGRAVE.<br/>16th November 1853.</p> <p>HILL.<br/>16th November 1853.</p> <p>RONALD.<br/>16th November 1853.</p> <p>JOHNSON.<br/>16th November 1853.</p> <p>PRATT.<br/>16th November 1853.</p> <p>FERGUSON.<br/>16th November 1853.</p> <p>GREENFIELD.<br/>16th November 1853.</p> <p>JACKSON.<br/>16th November 1853.</p> <p>BRISTOW.<br/>ATTWOOD.<br/>16th November 1853.</p> <p>CARTER.<br/>17th November 1853.</p> | <p>2645. JOHN CAMERON and JAMES NAPIER, both of Loughor, in the County of Glamorgan, Practical Chemists, for an invention for—"Improvements in obtaining gold and silver from ores, alloys, or compounds containing such metals."<br/><i>Letters Patent sealed.</i></p> <p>2646. JOHN HALL BROCK THWAITES, of Bristol, Dentist, and WILLIAM BIRD HERAPATH, also of Bristol, M.D., for an invention for—"Improvements in the manufacture of quinine and other alkaloids."<br/><i>Letters Patent sealed.</i></p> <p>2647. ADRIEN DELCAMBRE, of Paris, for an invention for—"Improvements in machinery for distributing type."<br/><i>Provisional protection only.</i></p> <p>2648. JOSEPH FRY, of 19, Cannon Street West, in the City of London, Merchant, for an invention for—"Improvements in preparing solvents for india-rubber and gutta-percha, and in rendering waterproof fabrics free from odour."<br/><i>Letters Patent sealed.</i></p> <p>2649. PETER ALEXANDER HALKETT, of the Albany, in the County of Middlesex, Lieutenant in the Royal Navy, for an invention for—"Improvements in apparatus for lifting and lowering ships and other heavy bodies either submerged or otherwise."<br/><i>Letters Patent sealed.</i></p> <p>2650. JOHN ELLERTHORPE, of Kingston-on-Hull, in the County of York, Master Mariner, for an invention for—"Retarding and stopping railway-trains and railway-carriages."<br/><i>Provisional protection only.</i></p> <p>2651. JAMES WILLS WAYTE, of Gate Street, Lincoln's Inn Fields, in the County of Middlesex, Engineer, for an invention for—"Certain improvements in self-feeding furnaces."<br/><i>Letters Patent sealed; no specification filed.</i></p> <p>2652. JOHN RIDDELL MUSGRAVE, ROBERT MUSGRAVE, and JAMES MUSGRAVE, of Belfast, Ireland, for an invention for—"Improvements in hot-air stoves."<br/><i>Letters Patent sealed.</i></p> <p>2653. PHILIP HILL, of Gravel House, Coggeshall, in the County of Essex, for an invention for—"Improvements in weaving plush and other piled fabrics."—<i>Partly a communication.</i><br/><i>Letters Patent sealed.</i></p> <p>2654. JOHN RONALD, of Paisley, Manufacturer, for an invention for—"Improvements in fixing colours on yarns and cloths."<br/><i>Letters Patent sealed.</i></p> <p>2655. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in thrashing-machines, and in apparatus connected therewith."—<i>A communication from Monsieur Lotz, of Nantes, in the Empire of France, Machine Maker.</i><br/><i>Letters Patent sealed.</i></p> <p>2656. DAVID PRATT, of Birmingham, in the County of Warwick, for an invention for—"Certain mechanical arrangements for raising thimbles, the same to be worked by steam, water, or other power, thereby superseding hand-labour."<br/><i>Letters Patent sealed.</i></p> <p>2657. JOHN FERGUSON, of Heathfield, in the County of Lanark, North Britain, Brick and Pottery Manufacturer, for an invention for—"Improvements in furnaces and fire-places, and in the prevention of smoke."<br/><i>Letters Patent sealed.</i></p> <p>2658. WILLIAM FREDERICK GREENFIELD, of Ipswich, in the County of Suffolk, Clerk, Master of Arts, for an invention for—"Improvements in communicating from one part of a railway-train to another."<br/><i>Provisional protection only.</i></p> <p>2659. THOMAS JACKSON, of Commercial Road, Pimlico, in the County of Middlesex, Contractor for Public Works, for an invention for—"Improvements in the manufacture of hats."<br/><i>Provisional protection only.</i></p> <p>2660. JAMES BRISTOW, of Bouverie Street, in the City of London, Miller, and HENRY ATTWOOD, of Holland Street, Blackfriars Road, in the County of Surrey, Engineer, for an invention for—"An improved mode of constructing marine boilers."<br/><i>Letters Patent sealed.</i></p> <p>2661. GEORGE CARTER, of Mottingham, in the County of Kent, Gentleman, for an invention for—"Improvements in the construction of steam-engine boiler and other furnaces."<br/><i>Letters Patent sealed.</i></p> |
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| CLARE.<br>17th November 1853.                     | 2662. JOHN CLARE, junior, of 21, Exchange Buildings, Liverpool, in the County Palatine of Lancaster, Produce-broker, for an invention for—"Improvements in the manufacture of bar and sheet metals, in machinery connected therewith, and in the application of such metals to various useful purposes."<br><i>Letters Patent sealed.</i>                                                                      |
| DUGMORE.<br>MILLWARD.<br>17th November 1853.      | 2663. GEORGE DUGMORE, of Birmingham, in the County of Warwick, Manufacturer, and GEORGE HAYWOOD MILLWARD, of Birmingham, aforesaid, Manufacturer, for an invention for—"A new or improved method of signalling or communicating between trains on railways."<br><i>Letters Patent sealed.</i>                                                                                                                  |
| ABRAHAM.<br>ABRAHAM.<br>17th November 1853.       | 2664. SOLOMON ABRAHAM and SAMUEL VICTOR ABRAHAM, of Lisle Street, for an invention for—"Communicating information or directions to persons in charge of railway trains."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                      |
| ASHTON.<br>17th November 1853.                    | 2665. WILLIAM ASHTON, of Manchester, in the County of Lancaster, Machinist, for an invention for—"Certain improvements in machinery or apparatus for manufacturing braid."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                    |
| BANFIELD.<br>17th November 1853.                  | 2666. JOHN BANFIELD, of Birmingham, in the County of Warwick, for an invention for—"A double-acting railway signal for preventing collisions or accidents on railways."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                       |
| UNDERWOOD.<br>17th November 1853.                 | 2667. WILLIAM UNDERWOOD, of Handsworth, Staffordshire, for an invention for—"Improvements in cooking-stoves."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                           |
| BURTON.<br>17th November 1853.                    | 2668. CHARLES BURTON, of No. 487, (New) Oxford Street, in the County of Middlesex, Carriage Manufacturer, for an invention for—"Certain improvements in hand and draught carriages for common roads."<br><i>Letters Patent sealed.</i>                                                                                                                                                                         |
| BOURNE.<br>17th November 1853.                    | 2669. THOMAS BOURNE, of West Smithfield, in the County of Middlesex, Saddler, for an invention for—"Improvements in the construction of buckles."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                             |
| HOFFSTAEDT.<br>17th November 1853.                | 2670. AUGUSTUS JOHANN HOFFSTAEDT, of Albion Place, in the County of Surrey, Agent, for an invention for—"An improved mode of preparing the colour known as artificial ultramarine."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                           |
| GRIFFITHS.<br>17th November 1853.                 | 2671. ROBERT GRIFFITHS, of 444, Strand, for an invention for—"Improvements in propelling vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                            |
| KEOGH.<br>WILSON.<br>18th November 1853.          | 2672. PATRICK FRANCIS KEOGH and WILLIAM ASHLEY WILSON, both of Liverpool, in the County of Lancaster, Engineers, for an invention for—"An improvement in steam-engines."<br><i>Provisional protection only.</i>                                                                                                                                                                                                |
| PARSONS.<br>18th November 1853.                   | 2673. PERCEVAL MOSES PARSONS, of Duke Street, Adelphi, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in railway and other carriages and vehicles."<br><i>Provisional protection only.</i>                                                                                                                                                                                     |
| GUY.<br>18th November 1853.                       | 2674. ALFRED GUY, of No. 32, Upper Rosomon Street, Clerkenwell, in the County of Middlesex, Ironworker, for an invention for—"A portable water-closet with water-supply without the action of pump."<br><i>Provisional protection only.</i>                                                                                                                                                                    |
| FERNIHOUGH.<br>FERNIHOUGH.<br>18th November 1853. | 2675. CHARLES FERNIHOUGH and JAMES FERNIHOUGH, of the firm of John Fernihough and Sons, of Victoria Iron Works, Dukinfield, in the County of Chester, Boiler Makers, Ironfounders, &c., for an invention for—"Improvements in machinery or apparatus for wringing or twisting, glossing, stretching, and drying silk, cotton, wool, flax, and other fibrous materials."<br><i>Provisional protection only.</i> |
| HOLMES.<br>18th November 1853.                    | 2676. THOMAS HOLMES, of Pendleton, in the County of Lancaster, Bleacher, for an invention for—"Improvements in ventilating drying stoves."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                    |
| GALL.<br>18th November 1853.                      | 2677. JAMES GALL, junior, of Edinburgh, Scotland, Sculptor, for an invention for—"Improvements in electro-magnetic engines."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                            |
| RÉMOND.<br>18th November 1853.                    | 2678. AMÉDÉE FRANÇOIS RÉMOND, of Birmingham, in the County of Warwick, Gentleman, for an invention for—"An improvement or improvements in the construction of steam boilers or generators."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| TAYLOR.<br>18th November 1853.                    | 2679. WILLIAM TAYLOR, residing at No. 16, Park Street, Gloucester Gate, Regent's Park, for an invention for—"Improvements in anchors."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                        |



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| MELVILLE.<br>18th November 1853.           | 2680. JAMES MELVILLE, of Roebank Works, Lochwinnoch, in the County of Renfrew, North Britain, Calico printer, for an invention for—"Improvements in printing textile fabrics and other surfaces."<br><i>Letters Patent sealed.</i>                                                                                                                                 |
| CLAVIÈRES.<br>18th November 1853.          | 2681. JEAN BAPTISTE CLAVIÈRES, of Paris, France, and of 4, South Street Finsbury, London, Engineer, for an invention for—"An improved mode of giving publicity."<br><i>Letters Patent sealed.</i>                                                                                                                                                                  |
| POOLE.<br>18th November 1853.              | 2682. MOSES POOLE, of the Avenue Road, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in surface-condensors, and in evaporators and heaters for steam-engines."<br><i>A communication. Letters Patent sealed.</i>                                                                                                                   |
| O'NEILL.<br>18th November 1853.            | 2683. PATRICK BENIGNUS O'NEILL, of Paris, for an invention for—"An improvement in the manufacture of perforated buttons."<br><i>A communication. Letters Patent sealed.</i>                                                                                                                                                                                        |
| BROWN.<br>18th November 1853.              | 2684. JOHN HARCOURT BROWN, of Arthur's Seat, Aberdeen, for an invention for—"Improvements in the manufacture of artificial skins."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                |
| COTTAM.<br>18th November 1853.             | 2685. HENRY RICHARD COTTAM, of 1A, Sussex Terrace, Hyde Park Gardens, for an invention for—"Improvements in the construction of portable houses."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                 |
| RICE.<br>MATTHEWS.<br>18th November 1853.  | 2686. JAMES RICE, of Foley Place, in the County of Middlesex, Surgeon, and WILLIAM MATTHEWS, of Portugal Street, in the same County, Surgical Instrument Maker, for an invention for—"Improvements in instruments for taking and applying vaccine matter."<br><i>Provisional protection only.</i>                                                                  |
| NORRIS.<br>TALBOTT.<br>18th November 1853. | 2687. RICHARD STUART NORRIS, of Warrington, in the County of Lancaster, Railway Engineer, and EBENEZER TALBOTT, of Crewe, in the County of Chester, Manager of Iron Works, for an invention for—"An improvement or improvements in the manufacture of iron."<br><i>Letters Patent sealed.</i>                                                                      |
| HARRIS.<br>19th November 1853.             | 2688. JAMES HARRIS, of Hanwell, in the County of Middlesex, Engineer, for an invention for—"Improvements in apparatus for heating water and other fluids."<br><i>Letters Patent sealed.</i>                                                                                                                                                                        |
| CASTETS.<br>19th November 1853.            | 2689. AUGUSTE CASTETS, Civil Engineer, of Paris, in the French Empire, for an invention for—"An improved composition for curing diseases in the feet of animals."<br><i>Letters Patent sealed.</i>                                                                                                                                                                 |
| POOLE.<br>19th November 1853.              | 2690. MOSES POOLE, of Avenue Road, Regent's Park, in the County of Middlesex, for an invention for—"Improvements in breach-loading fire-arms, and in cartridges for use with such arms."<br><i>A communication from William Walker Marston, of New York. Letters Patent sealed.</i>                                                                                |
| AUSTIN.<br>19th November 1853.             | 2691. WILLIAM AUSTIN, of 27, Holywell Street, Westminster, for an invention for—"Improvements in the manufacture of tiles and tubes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                             |
| ROWLAND.<br>19th November 1853.            | 2692. ELLIS ROWLAND, of Mossley, near Belfast, for an invention for—"Improvements in apparatus to be applied to a railway truck or carriage, to enable a guard or person to sound a whistle, and, when necessary, to put such truck or carriage in motion independent of the locomotive-engine."<br><i>Provisional protection only.</i>                            |
| DIMSDALE.<br>19th November 1853.           | 2693. THOMAS ISAAC DIMSDALE, of the City of Dublin, Gentleman, for an invention for—"The use and preparation of certain solid and liquid substances for the defecation, purification, and decolorization of saccharine juices and syrups or solutions, and for neutralizing, decomposing, and absorbing noxious and fetid gases."<br><i>Letters Patent sealed.</i> |
| POTTER.<br>MILLS.<br>19th November 1853.   | 2694. JOHN GERALD POTTER, Carpet Manufacturer, and ROBERT MILLS, Designer, both of Darwen, in the County of Lancaster, for an invention for—"Certain improvements in the manufacture of carpets."<br><i>Letters Patent sealed.</i>                                                                                                                                 |
| WHARTON.<br>19th November 1853.            | 2695. EMANUEL WHARTON, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in the manufacture of railway-wheels."<br><i>Letters Patent sealed.</i>                                                                                                                                                                               |
| DANIELL.<br>19th November 1853.            | 2696. HENRY DANIELL, of Saint Austell, in the County of Cornwall, for an invention for—"Certain improvements in apparatus for drying clay."<br><i>Provisional protection only.</i>                                                                                                                                                                                 |



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| BRAND.<br>19th November 1853.             | 2697. RICHARD FARMER BRAND, of South Terrace, Willow Walk, Bermondsey, in the County of Surrey, for an invention for—"Improvements in fire-arms and ordnance."<br><i>Provisional protection only.</i>                                                                                                                    |
| TUCKER.<br>REEVES.<br>21st November 1853. | 2698. WALTER HENRY TUCKER and WILLIAM RASHLEIGH REEVES, both of Tiverton, in the County of Devonshire, for an invention for—"Improvements in locks."<br><i>Letters Patent sealed.</i>                                                                                                                                    |
| SCOTT.<br>21st November 1853.             | 2699. JOHN SCOTT, junior, of Greenock, in the County of Renfrew, North Britain, Engineer, for an invention for—"Improvements in steering vessels."<br><i>Provisional protection only</i>                                                                                                                                 |
| WIGLESWORTH.<br>21st November 1853.       | 2700. HENRY WIGLESWORTH, of Newbury, in the County of Berks, Bachelor of Medicine, for an invention for—"Improvements in pistons."<br><i>Provisional protection only.</i>                                                                                                                                                |
| PARFITT.<br>21st November 1853.           | 2701. AARON PARFITT, of Newbury, Berks, for an invention for—"Improvements in the construction of certain descriptions of vehicles."<br><i>Provisional protection only.</i>                                                                                                                                              |
| LILLIE.<br>21st November 1853.            | 2702. SIR JOHN SCOTT LILLIE, Companion of the Most Honourable Order of the Bath, of 4, South Street, Finsbury, London, for an invention for—"Improvements in apparatus for the production of carburetted hydrogen gas."— <i>A communication.</i><br><i>Provisional protection only.</i>                                  |
| SIBBALD.<br>21st November 1853.           | 2703. ROBERT JAMIESON SIBBALD, of Paddington, Edge Hill, West Derby, in the County of Lancaster, Surgeon, for an invention for—"An improved mode of communicating from vessels to the shore, or from one vessel to another."<br><i>Letters Patent sealed.</i>                                                            |
| RADCLIFFE.<br>21st November 1853.         | 2704. AUGUSTUS RADCLIFFE, of Chichester Place, King's Cross, in the County of Middlesex, Glazier's Diamond Manufacturer, for an invention for—"An improved construction of glazier's diamond."<br><i>Letters Patent sealed.</i>                                                                                          |
| CASHMORE.<br>21st November 1853.          | 2705. JOHN CASHMORE, of Bevis Marks, in the City of London, Watchmaker, for an invention for—"An improved mode of communicating signals on railways."<br><i>Provisional protection only.</i>                                                                                                                             |
| JOYCE<br>MEACHAM.<br>21st November 1853.  | 2706. WILLIAM JOYCE, of Greenwich, in the County of Kent, Engineer, and THOMAS MEACHAM, of the same place, Engineer, for an invention for—"Certain improvements in marine steam-engines."<br><i>Letters Patent sealed.</i>                                                                                               |
| BRIGGS.<br>22nd November 1853.            | 2707. EDWARD BRIGGS, of the Castleton Mills, near Rochdale, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in weaving and manufacturing raised pile fabrics, and in machinery employed therein."<br><i>Letters Patent sealed.</i>                                                          |
| GREAVES.<br>22nd November 1853.           | 2708. WILLIAM GREAVES, of Leeds, in the County of York, Chemist, for an invention for—"An indicator-alarm applicable to railways and railway-trains."<br><i>Provisional protection only.</i>                                                                                                                             |
| BAIN.<br>22nd November 1853.              | 2709. ALEXANDER BAIN, of Paddington, in the County of Middlesex, Engineer, for an invention for—"An improvement in cases for holding cards."<br><i>Provisional protection only</i>                                                                                                                                       |
| MEE.<br>22nd November 1853.               | 2710. WILLIAM MEE, of Leicester, in the County of Leicester, Manufacturer, for an invention for—"Improvements in the manufacture of braces."<br><i>Letters Patent sealed.</i>                                                                                                                                            |
| BIRD.<br>22nd November 1853.              | 2711. ALFRED BIRD, of Birmingham, in the County of Warwick, Chemist, for an invention for—"Certain improvements in apparatus to be employed for the purpose of communicating signals on railway-trains and railways; which improvements are also applicable to other similar purposes."<br><i>Letters Patent sealed.</i> |
| ADAMS.<br>22nd November 1853.             | 2712. ROBERT ADAMS, of King William Street, in the City of London, for an invention for—"Improvements in fire-arms."<br><i>Letters Patent sealed.</i>                                                                                                                                                                    |
| MEYER.<br>22nd November 1853.             | 2713. FREDERICK MEYER, of Paradise Street, Lambeth, for an invention for—"Improvements in treating fatty and oily matters, to render them applicable for the manufacture of candles and night-lights."<br><i>Provisional protection only.</i>                                                                            |



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| LEVICK.<br>FIELDHOUSE.<br>22nd November 1853. | 2714. FREDERICK LEVICK, of Cwm Celyn & Blaina Iron Works, Monmouthshire, Ironmaster, and JOSEPH FIELDHOUSE, of the same place, Engineer, for an invention for—"Improvements in machinery for raising coal and minerals from collieries and mines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                      |
| MEYER.<br>22nd November 1853.                 | 2715. FREDERICK MEYER, of Paradise Street, Lambeth, for an invention for—"Improvements in bleaching oils and fats."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| RAMSAY.<br>22nd November 1853.                | 2716. CHARLES RAMSAY, of North Shields, Brass-founder, for an invention for—"Improvements in ships' and other pumps."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| PEGG.<br>22nd November 1853.                  | 2717. WILLIAM PEGG, of Leicester, for an invention for—"Improvements in instruments for cutting out parts of garments and other articles, and in grinding and sharpening cutters for the same."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ARDING.<br>22nd November 1853.                | 2718. FRANCIS ARDING, of the Albert Iron Works, Uxbridge, in the County of Middlesex, Agricultural-Implement Manufacturer, for an invention for—"Improvements in machinery for cutting, splitting, and bruising vegetable substances."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                  |
| BURLEIGH.<br>22nd November 1853.              | 2719. BENJAMIN BURLEIGH, of the Great Northern Railway, King's Cross, in the County of Middlesex, for an invention for—"Improved railway-crossings as adapted to the double-headed rail and the ordinary rail and chair."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                               |
| ABRAHAM.<br>23rd November 1853.               | 2720. HENRY ROBERT ABRAHAM, of No. 11, Howard Street, Strand, in the County of Middlesex, for an invention for—"Improvements in coffins and in hearses, and improvements in receptacles for coffins for their transmission."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                            |
| STANSBURY.<br>23rd November 1853.             | 2721. CHARLES FREDERICK STANSBURY, of the firm of Nourse & Co, American and General Patent Agents, of 17, Cornhill, London, for an invention for—"An apparatus to be attached to a drill for sowing grain or other seeds, for the purpose of mingling guano or other pulverized manure with the grain or seed to be sown, and depositing it in the ground at the same time with the seed, thereby greatly diminishing the quantity of guano or other manure required to produce the best fertilizing effects."— <i>A communication from Thomas Frederick Nelson, of Clarke County, Virginia, in the United States of America.</i><br><i>Provisional protection only.</i> |
| EMPSON.<br>23rd November 1853.                | 2722. JOHN FIELDING EMPSON, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of wire."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| HILL.<br>HILL.<br>23rd November 1853.         | 2723. JOHN HILL, senior, and JOHN HILL, junior, both of the City of Manchester, Machine-makers, for an invention for—"Improvements in machinery for winding, doubling, and spinning silk."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| AMOS.<br>23rd November 1853.                  | 2724. JOSEPH AMOS, of Bristol, in the County of Somerset, for an invention for—"Improvements in preparing wood to be employed in the manufacture of casks and other vessels for containing liquids."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                                                                                                                              |
| TIMEWELL.<br>23rd November 1853.              | 2725. JOHN TIMEWELL, of Duke Street, Saint James's, in the County of Middlesex, Tailor, for an invention for—"Improvements in cutting or shaping materials to be employed in the manufacture of articles of dress."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                                                                                                               |
| DILKS.<br>23rd November 1853.                 | 2726. JAMES DILKS, of Parliament Street, in the Town of Nottingham, Lithographer and Embosser, for an invention for—"Improvements in bands for binding more effectually than heretofore packets or parcels of lace and other articles."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                 |
| WILKINS.<br>23rd November 1853.               | 2727. EDWARD WILKINS, of No. 60, Queen's Row, Walworth, in the County of Surrey, Gentleman, for an invention for—"An improvement or improvements in draining land."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| JOHNSON.<br>23rd November 1853.               | 2728. WILLIAM BECKETT JOHNSON, of Manchester, in the County of Lancaster, Manager for Messieurs Ormerod and Son, Engineers and Iron-founders, for an invention for—"Improvements in steam-engines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| BRADY.<br>23rd November 1853.                 | 2729. JOHN DRUMGOOLE BRADY, of Cambridge Terrace, in the County of Middlesex, Esquire, for an invention for—"An improved mode of or a new arrangement of straps for slinging knapsacks."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                |



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| KINDER.<br>23rd November 1853.          | 2730. THOMAS WILLIAM KINDER, of the City of Dublin, Ireland, Engineer, for an invention for—"Improvements in the construction of the permanent way of railways."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                 |
| LOVELL.<br>24th November 1853.          | 2731. JAMES LOVELL, of Glasgow, in the County of Lanark, Scotland, Gentleman, for an invention for—"Improvements in the application of heat to various useful purposes."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                 |
| CHALMERS.<br>24th November 1853.        | 2732. DAVID CHALMERS, of the City of Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Improvements in railway breaks and signals."<br><i>Provisional protection only.</i>                                                                                                                                                                              |
| MASON.<br>JONES.<br>24th November 1853. | 2733. HUGH MASON, of Ashton-under-Lyne, Manufacturer, and JOHN JONES, of Manchester, Machine Maker, both in the County of Lancaster, for an invention for—"Improvements in machinery or apparatus for doubling, twisting, and spooling woollen, cotton, and other yarns."<br><i>Letters Patent sealed.</i>                                                                        |
| HOLMAN.<br>24th November 1853.          | 2734. STEPHEN HOLMAN, of Colney Hatch, in the County of Middlesex, Engineer, for grant of Letters Patent for an invention for—"An improved construction of double-action pump."<br><i>Provisional protection only.</i>                                                                                                                                                            |
| NEWTON.<br>24th November 1853.          | 2735. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"A novel construction of apparatus to be used as a chest-expander and as a uterine or abdominal supporter."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                   |
| RICHARDS.<br>24th November 1853.        | 2736. EVAN MATTHEW RICHARDS, of Swansea, in the County of Glamorgan, Merchant, for an invention for—"Improvements in feed-plates to be used for oxidizing lead and refining silver and lead."<br><i>Provisional protection only.</i>                                                                                                                                              |
| LISTER.<br>24th November 1853.          | 2737. SAMUEL CUNLIFFE LISTER, of Manningham, in the Parish of Bradford, in the County of York, Manufacturer, for an invention for—"Improvements in combing wool, cotton, and other fibrous materials."<br><i>Letters Patent sealed.</i>                                                                                                                                           |
| TOWNSEND.<br>24th November 1853.        | 2738. ELMER TOWNSEND, of the State of Massachusetts, of the United States of America, for an invention for—"New and useful improvements in machinery for sewing cloth or other material."— <i>A communication from William Butterfield, of the said State of Massachusetts.</i><br><i>Letters Patent sealed.</i>                                                                  |
| JONES.<br>24th November 1853.           | 2739. WILLIAM JONES, of Kilney Cottage, Swansea, for an invention for—"Improvements in the manufacture of bricks."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                               |
| BANKS.<br>24th November 1853.           | 2740. DANIEL LANCASTER BANKS, of 42, S <sup>t</sup> James Place, Toxteth Park, Liverpool, for an invention for—"Improvements in rotatory-engines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                               |
| DE MONTFERRIER.<br>25th November 1853.  | 2741. ALEXANDRE ANDRÉ VICTOR SARRAZIN DE MONTFERRIER, of Paris, France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"Improvements in wheels for vehicles on common roads and railways."<br><i>Letters Patent sealed.</i>                                                                                                                            |
| NICHOL.<br>25th November 1853.          | 2742. DAVIDSON NICHOL, of Edinburgh, Scotland, Stationer, for an invention for—"Improvements in the manufacture of envelopes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                   |
| BERRY.<br>25th November 1853.           | 2743. JOHN BERRY, of the City of Manchester, in the County of Lancaster, Warehouseman, for an invention for—"Improvements in the machinery or apparatus for manufacturing wire-fencing."<br><i>Letters Patent sealed.</i>                                                                                                                                                         |
| CALDER.<br>25th November 1853.          | 2744. WILLIAM CALDER, of Glasgow, in the County of Lanark, North Britain, Manager, for an invention for—"Improvements in the treatment and finishing of threads or yarns."<br><i>Letters Patent sealed.</i>                                                                                                                                                                       |
| BROOK.<br>BROOK.<br>25th November 1853. | 2745. WILLIAM LEIGH BROOK, of Meltham Mills, near Huddersfield, in the County of York, Cotton Spinner, and CHARLES BROOK, junior, of the same place, Cotton Spinner, for an invention for—"Certain improvements in preparing, dressing, and finishing cotton and linen yarns or threads, and in the machinery or apparatus connected therewith."<br><i>Letters Patent sealed.</i> |
| DREW.<br>25th November 1853.            | 2746. ALEXANDER DREW, of Glasgow, in the County of Lanark, North Britain, Calico Printer, for an invention for—"Improvements in ornamenting woven fabrics and other surfaces."<br><i>Provisional protection only.</i>                                                                                                                                                             |



- JOHNSON.  
25th November 1853. 2747. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in carding-engines for carding cotton and other fibrous materials."—*A communication from George Wellman, of Lowell, in the United States of America.*  
*Letters Patent sealed.*
- JOHNSON.  
25th November 1853. 2748. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the production of printing surfaces."—*A communication from Auguste Felde-trappe, of Paris, in the Empire of France, Engraver.*  
*Letters Patent sealed.*
- JOHNSON.  
25th November 1853. 2749. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for "Improvements in the manufacture of metallic pins."—*A communication from the United States of America.*  
*Provisional protection NOT granted.*
- BELLFORD.  
25th November 1853. 2750. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, (City), London, Patent Agent, for an invention for—"Improvements applicable to pens and pencils for writing or drawing."—*A communication.*  
*Provisional protection only.*
- BELLFORD.  
25th November 1853. 2751. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, (City), London, Patent Agent, for an invention for—"Improvements in rotary engines."—*A communication.*  
*Letters Patent sealed.*
- GRENIER.  
25th November 1853. 2752. CHARLES CALIXTE ANDRÉ GRENIER, Merchant, of Paris, Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"Improvements in the preparation of paints for buildings, and other uses."  
*Letters Patent sealed.*
- WILKINSON.  
RYE.  
25th November 1853. 2753. ENOCH WILKINSON and WILLIAM RYE, both of Oldham, in the County of Lancaster, for an invention for—"Improvements in power-loom." *Provisional protection only.*
- BARTHÉLEMY.  
PETITJEAN.  
BOURQUIN.  
25th November 1853. 2754. EMMANUEL BARTHÉLEMY and TONY PETITJEAN, of Upper John Street, Fitzroy Square, in the County of Middlesex, Mechanists, and JEAN PIERRE BOURQUIN, of Newman Street, Oxford Street, in the same County, Merchant, for an invention for—"Improved means of ornamenting glass." *Letters Patent sealed.*
- WORMALD.  
POLLARD.  
26th November 1853. 2755. JOSEPH WORMALD, of Vauxhall, and GEORGE POLLARD, of York Road, Lambeth, for an invention for—"An improved pipe-wrench." *Letters Patent sealed.*
- MOAT.  
26th November 1853. 2756. WILLIAM CROFTON MOAT, of the Strand, in the City of Westminster, Member of the Royal College of Surgeons, England, for an invention for—"An improved truss." *Provisional protection only.*
- STENSON.  
26th November 1853. 2757. JOSEPH STENSON, of Northampton, in the County of Northampton, Civil Engineer and Iron Manufacturer, for an invention for—"Improvements in the manufacture of iron." *Letters Patent sealed.*
- GAZAGNAIRE.  
26th November 1853. 2758. GEORGES EDOUARD GAZAGNAIRE, of Marseilles (France), and of 16, Castle Street, Holborn (City), London, for an invention for—"Improvements in the manufacture of nets for fishing and other purposes." *Letters Patent sealed.*
- COUTTE.  
HAMMERBACHER.  
26th November 1853. 2759. HIPPOLYTE COUTTE and JEAN MICHEL HAMMERBACHER, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"An improved machine for washing linen and other textile articles." *Provisional protection only.*
- ROTH.  
DANNER.  
26th November 1853. 2760. JULES ROTH and HENRI DANNER, of Mulhouse (France), and of 16, Castle Street, Holborn (City), London, for an invention for—"An improvement in cards for carding." *Provisional protection only.*
- BELLFORD.  
26th November 1853. 2761. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn (City), London, Patent Agent, for an invention for—"Certain improvements in straining mill saws."—*A communication.* *Letters Patent sealed.*
- CORNIDES.  
26th November 1853. 2762. LOUIS CORNIDES, of 4, Trafalgar Square, Charing Cross, in the County of Middlesex, for an invention for—"Combining gelatine with certain other substances, and colouring the same so as to produce various objects capable of resisting atmospheric influences." *Letters Patent sealed.*



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| CHAMBERS.<br>CHAMBERS.<br>26th November 1853. | 2763. THOMAS CHAMBERS and JOHN CHAMBERS, of the Thorncliffe Iron Works, near Sheffield, in the County of York, for an invention for—"Certain improvements in kitchen sinks."<br><i>Letters Patent sealed.</i>                                                                                                                        |
| ROUSSELOT.<br>26th November 1853.             | 2764. JOSEPH SCIPION ROUSSELOT, of Nîmes, in the Empire of France, Electrician, for an invention for—"An improved application of magneto-electricity for driving machinery, and for neutralizing the impulsive force of machinery in motion."<br><i>Letters Patent sealed.</i>                                                       |
| PERODEAUD.<br>26th November 1853.             | 2765. JOSEPH MICHEL HENRI PERODEAUD, Civil Engineer, of No. 35, Rue Godot de Mauroy, Paris, in the Empire of France, for an invention for—"An improved mode of treating peat for the conversion of the same into an artificial coal which may be used in that state or afterwards reduced to coke."<br><i>Letters Patent sealed.</i> |
| PRITCHARD.<br>28th November 1853.             | 2766. WILLIAM PRITCHARD, of Clerkenwell, in the County of Middlesex, Cabinet Maker, for an invention for—"Improvements in buffers for diminishing the shock in the collision of railway-trains."<br><i>Provisional protection only.</i>                                                                                              |
| WALMSLEY.<br>INGHAM.<br>28th November 1853.   | 2767. JOHN WALMSLEY, of Accrington, in the County of Lancaster, Manufacturer, and JOHN INGHAM, of Blackburn, in the same County, Mechanic, for an invention for—"Improvements in looms."<br><i>Letters Patent sealed.</i>                                                                                                            |
| SOCHET.<br>28th November 1853.                | 2768. PRIX CHARLES JEAN BAPTISTE SOCHET, of Paris, France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"Improvements in obtaining motive-power by means of heated gases."<br><i>Letters Patent sealed.</i>                                                                                             |
| NICHOLLS.<br>28th November 1853.              | 2769. ROBERT HAWKINS NICHOLLS, of Bedford, in the County of Bedford, Gentleman, for an invention for—"Improvements in hoeing and otherwise cultivating land."<br><i>Letters Patent sealed.</i>                                                                                                                                       |
| TIZARD.<br>28th November 1853.                | 2770. WILLIAM LITTEL TIZARD, of Aldgate, in the City of London, Engineer, for an invention for—"Improvements in signalling to prevent collisions on railways."<br><i>Provisional protection NOT granted.</i>                                                                                                                         |
| RAMSDEN.<br>28th November 1853.               | 2771. JOHN CARTER RAMSDEN, of Bradford, in the County of York, Stuff Manufacturer, for an invention for—"Improvements in apparatus or the mechanism of looms for weaving a certain class of plaids, checks, and fancy woven fabrics."<br><i>Letters Patent sealed.</i>                                                               |
| MACOMIE.<br>28th November 1853.               | 2772. ALEXANDER MACOMIE, of No. 6, Percy Street, Rathbone Place, Boro' of Marylebone, in the County of Middlesex, for an invention for—"An ornamental piece of furniture shaped like a vase, constructed to contain or form a writing and drawing desk."<br><i>Letters Patent sealed.</i>                                            |
| LORD.<br>28th November 1853.                  | 2773. JAMES LORD, of Farnworth, in the County of Lancaster, Manager, for an invention for—"Improvements in the manufacture of certain articles for ladies under-clothing, and in fabrics for the same."<br><i>Provisional protection only.</i>                                                                                       |
| HURRELL.<br>28th November 1853.               | 2774. SAMUEL HURRELL, of New North Street, in the County of Middlesex, Smith, for an invention for—"Improved machinery for measuring and winding or rolling fabrics."<br><i>Provisional protection only.</i>                                                                                                                         |
| KELLY.<br>29th November 1853.                 | 2775. PATRICK KELLY, of Number 111, West Street, Drogheda, in the County of the Town of Drogheda, Printer, for an invention for—"An improved apparatus for cultivating, preparing, and treating land, and for sowing seeds."<br><i>Letters Patent sealed.</i>                                                                        |
| HUGHES.<br>29th November 1853.                | 2776. EDWARD JOSEPH HUGHES, of the City of Manchester, in the County of Lancaster, Patent Agent, for an invention for—"An improved method of purifying and concentrating the coloring matter of madder, munjeet, spent madder, or any preparations thereof however they may be made."<br><i>Letters Patent sealed.</i>               |
| MICHEL.<br>29th November 1853.                | 2777. LOUIS ALEXANDRE MICHEL, Merchant, of Paris (Empire of France), and of 16, Castle Street, Holborn (City), London, for an invention for—"A system of apparatus for sawing and breaking sugar."<br><i>Complete specification ; Letters Patent sealed.</i>                                                                         |
| BELLFORD.<br>29th November 1853.              | 2778. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn (City), London, Patent Agent, for an invention for—"Improvements in fire-arms."<br><i>A communication. Letters Patent sealed.</i>                                                                                                                             |
| MOORE.<br>29th November 1853.                 | 2779. JOSEPH MOORE, of the City of Lincoln, Gentleman, for an invention for—"An improvement in or addition to ploughs."<br><i>Provisional protection only.</i>                                                                                                                                                                       |



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| <p>MANNING.<br/>29th November 1853.</p> <p>JACKSON.<br/>30th November 1853.</p> <p>ELCE.<br/>30th November 1853.</p> <p>FONTAINE MOREAU.<br/>30th November 1853.</p> <p>DAVIS.<br/>30th November 1853.</p> <p>HEWITT.<br/>30th November 1853.</p> <p>REDFORD.<br/>30th November 1853.</p> <p>BALDERSTONE.<br/>30th November 1853.</p> <p>PATTERSON.<br/>30th November 1853.</p> <p>LOUBAT.<br/>30th November 1853.</p> <p>JENNINGS.<br/>30th November 1853.</p> <p>DE LANDTSHEER.<br/>30th November 1853.</p> <p>COLE.<br/>30th November 1853.</p> <p>GARNETT.<br/>ADAMSON.<br/>1st December 1853.</p> <p>BELLFORD.<br/>1st December 1853.</p> <p>JONES.<br/>1st December 1853.</p> | <p>2780. JAMES ALEXANDER MANNING, of the Inner Temple, in the County of Middlesex, Esquire, for an invention for—"Improvements in the treatment of sewerage and other polluted liquids, and the products thereof." <i>Letters Patent sealed.</i></p> <p>2781. JOSHUA JACKSON, of Wolverhampton, in the County of Stafford, Manufacturer, for an invention for—"A new or improved signalling apparatus." <i>Letters Patent sealed.</i></p> <p>2782. JOHN ELCE, of the City of Manchester, Machine Maker, for an invention for—"Certain improvements in machinery for spinning." <i>Letters Patent sealed; no specification filed.</i></p> <p>2783. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of 39, Rue de l'Echiquier, Paris, France, and 4, South Street, Finsbury, London, Patent Agent, for an invention for—"Certain improvements in the construction of the jacquard machine."—<i>A communication from Mr. Raymond Ronze, of Lyons, in France.</i> <i>Letters Patent sealed.</i></p> <p>2784. EDWARD KEATING DAVIS, late of Manchester, but now of No. 1, Howley Street, Lambeth, in the County of Surrey, Metal Pipe Manufacturer, for an invention for—"Improvements in machinery for making pipes, sheets, still-worms, and other articles from that class of metals called soft metals, as lead, tin, zinc, bismuth, or alloys of soft metals that are capable of being forced out of metal-receivers or chambers through dies, cores, &amp;c." <i>Letters Patent sealed.</i></p> <p>2785. JOHN HEWITT, of Salford, in the County of Lancaster, Machine Maker, for an invention for—"Certain improvements in machinery or apparatus for spinning cotton and other fibrous substances." <i>Letters Patent sealed.</i></p> <p>2786. JOSEPH REDFORD, of Pilkington, near Manchester, in the County of Lancaster, Weaver, for an invention for—"Certain improvements in power-looms." <i>Provisional protection only.</i></p> <p>2787. RICHARD BALDERSTONE, of Blackburn, in the County of Lancaster, Overlooker, for an invention for—"Improvements applicable to spinning-machines known as mules, and to machines of similar character, for clearing or cleaning certain parts of such machines." <i>Letters Patent sealed.</i></p> <p>2788. JOHN PATTERSON, of Beverley, in the County of York, Engineer, for an invention for—"Improvements in land-rollers or clod-crushers." <i>Letters Patent sealed; specification filed by order.</i></p> <p>2789. ALPHONSE LOUBAT, of Paris, in the Empire of France, Gentleman, for an invention for—"Improvements in the construction of tramways." <i>Provisional protection only.</i></p> <p>2790. LEWIS JENNINGS, of Fluyder Street, in the City of Westminster, Mechanical Engineer, for an invention for—"An improved mode of producing plain and ornamental sewing, and in machinery applicable thereto." <i>Letters Patent sealed.</i></p> <p>2791. NORBERT DE LANDTSHEER, of the City of Ghent, in the Kingdom of Belgium, for an invention for—"Improvements in machinery for combing flax or other fibrous material." <i>Provisional protection only.</i></p> <p>2792. FRANCIS SEWELL COLE, of Childown, in the County of Surrey, for an invention for—"A smoke-consuming apparatus for enabling every fire to consume its own smoke." <i>Provisional protection only.</i></p> <p>2793. THOMAS GARNETT, of Low Moor, near Clitheroe, in the County of Lancaster, Manufacturer, and DANIEL ADAMSON, of Duckinfield, in the County of Chester, Engineer, for an invention for—"Improvements in generating steam and in consuming smoke." <i>Letters Patent sealed.</i></p> <p>2794. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, City, London, Patent Agent, for an invention for—"Improvements in machinery for manufacturing horse-shoes"—<i>A communication.</i> <i>Letters Patent sealed.</i></p> <p>2795. ALFRED ISAAC JONES, of New Oxford Street, London, for an invention for—"An improved cigar-light." <i>Provisional protection only.</i></p> |
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| DILWORTH.<br>1st December 1853.                      | 2796. JOSEPH DILWORTH, of Preston, in the County of Lancaster, Engineer, for an invention for—"Improvements in escape-valves and safety valves."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                          |
| HOLLINSWORTH.<br>HOLLINSWORTH.<br>1st December 1853. | 2797. THOMAS HOLLINSWORTH and JOHN HOLLINSWORTH, both of Winwick, near Warrington, in the County of Lancaster, Engineers, for an invention for—"Certain improvements applicable to 'alarm-whistles' to be used upon railways or as signals where otherwise required."<br><i>Provisional protection only.</i>                                                                                               |
| JOHNSON.<br>1st December 1853.                       | 2798. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the treatment or manufacture of caoutchouc."— <i>A communication from Charles Eugene François Guibal and Louis Philippe Bernard Edouard Cumenge, of Paris, in the Empire of France, Manufacturers.</i><br><i>Letters Patent sealed.</i> |
| JOHNSON.<br>1st December 1853.                       | 2799. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Certain applications of vulcanized india-rubber."— <i>A communication from Charles Eugene François Guibal, of Paris, in the Empire of France, Manufacturer.</i><br><i>Letters Patent sealed.</i>                                                        |
| REILLY.<br>2nd December 1853.                        | 2800. JAMES REILLY, of 56, Thomas Street, in the City of Manchester, in the County of Lancaster, Chair Manufacturer, for an invention for—"Improvements in machinery or apparatus for tenoning, mortising, and sawing wood, metal, or other materials."<br><i>Letters Patent sealed.</i>                                                                                                                   |
| CALLEN.<br>2nd December 1853.                        | 2801. ARTHUR WELLINGTON CALLEN, of Peckham, in the County of Surrey, for an invention for—"An improved excavating and dredging machine."— <i>A communication.</i><br><i>Provisional protection only.</i>                                                                                                                                                                                                   |
| BELLFORD.<br>2nd December 1853.                      | 2802. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn (City), London, Patent Agent, for an invention for—"Improvements in blocks for ships and other uses."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                     |
| DEACON.<br>LEYLAND.<br>2nd December 1853.            | 2803. HENRY DEACON, of Widnes, in the County of Lancaster, Manufacturing Chemist, and EDMOND LEYLAND, of Saint Helens, in the same County, Builder, for an invention for—"Improvements in apparatus for the manufacture or production of sulphuric acid."<br><i>Letters Patent sealed.</i>                                                                                                                 |
| BROWN.<br>2nd December 1853.                         | 2804. ALEXANDER BROWN, of Glasgow, in the County of Lanark, North Britain, Cask Manufacturer, for an invention for—"Improvements in metallic casks and other vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                    |
| WILLIAMSON.<br>2nd December 1853.                    | 2805. GEORGE WILLIAMSON, of Glasgow, in the County of Lanark, North Britain, Manufacturer, for an invention for—"Improvements in applying motive power."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                  |
| BAIN.<br>2nd December 1853.                          | 2806. ALEXANDER BAIN, of Paddington, in the County of Middlesex, Engineer, for an invention for—"An apparatus for damping paper and other substances in order to prepare the same for the reception of labels, stamps, and other like articles coated with a gummy or adhesive matter."<br><i>Provisional protection only.</i>                                                                             |
| WILSON.<br>2nd December 1853.                        | 2807. JOHN CHARLES WILSON, of Redford Flax Factory, Thornton, Kirkcaldy, N. B., for an invention for—"Improvements in machinery for scutching flax, hemp, and other fibrous materials."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                   |
| COLLIER.<br>2nd December 1853.                       | 2808. GEORGE COLLIER, of Halifax, in the County of York, Mechanic, for an invention for—"Certain improvements in looms for weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                      |
| REYBURN.<br>2nd December 1853.                       | 2809. ROBERT REYBURN, of Baker Street, Greenock, for an invention for—"Improvements in sugar refining."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                             |
| LISTER.<br>2nd December 1853.                        | 2810. SAMUEL C. LISTER, of Bradford, in the County of York, Manufacturer, for an invention for—"Improvements in combing wool, hair, cotton, and other fibrous materials."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                 |
| BESSEMER.<br>2nd December 1853.                      | 2811. HENRY BESSEMER, of Baxter House, Old St. Pancras Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in the manufacture & refining of sugar."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                            |



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| SAUNDERS.<br>2nd December 1853.          | 2812. JONATHAN SAUNDERS, of St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in the manufacture of rails for railways."<br><i>Letters Patent sealed</i>                                                                                                                                                                                                                                                                                     |
| GREEN.<br>BAYLISS.<br>3rd December 1853. | 2813. CHARLES EDMUND GREEN, of 13, Blandford Street, Portman Square, London, Merchant, and JOHN BAYLISS, of 34, Parliament Street, Westminster, Civil Engineer, for an invention for—"Improvements in machinery to save persons and property in case of fire, which machinery may also be applied for the purpose of raising and lowering weights of any kind, also for the purpose of compression, and for other useful purposes."<br><i>Provisional protection only.</i> |
| ROGERS.<br>3rd December 1853.            | 2814. ABRAHAM ROGERS, Coal Proprietor and Miner, Bradford, Yorkshire, for an invention for—"Improvements in ventilating sewers, mines, or other subterranean works."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                |
| BUCK.<br>3rd December 1853.              | 2815. CHARLES BUCK, of Wellington, in the County of Somersetshire, Gentleman, for an invention for—"An improved apparatus for retarding or stopping the progress of wheel-carriages."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                     |
| DRAY.<br>3rd December 1853.              | 2816. WILLIAM DRAY, of Swan Lane, in the City of London, Agricultural Implement Maker, for an invention for—"Improvements in the construction of portable houses and buildings."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                          |
| GWYNNE.<br>GWYNNE.<br>3rd December 1853. | 2817. JOHN GWYNNE and JAMES EGLESON ANDERSON GWYNNE, of Essex Wharf, Strand, Middlesex, for an invention for—"Improvements in the manufacture of fuel, its preparation and applications for the reduction of ores, fusing and refining metals, cementation or making steel and treating salts."— <i>Partly a communication.</i><br><i>Letters Patent sealed.</i>                                                                                                           |
| ILIFFE.<br>NEWMAN.<br>3rd December 1853. | 2818. HENRY JEREMIAH ILIFFE and JAMES NEWMAN, of Birmingham, in the County of Warwick, Manufacturers, for an invention for—"Certain improvements in the construction of metallic bridges and other similar structures."<br><i>Provisional protection only.</i>                                                                                                                                                                                                             |
| HOCKADAY.<br>5th December 1853.          | 2819. CHARLES WILLIAM HOCKADAY, of Port Hall, Brighton, in the County of Sussex, Gentleman, for an invention for—"Certain chemical compound or compounds applicable as a remedy or remedies for scorbutic and other affections of the human body."<br><i>Complete specification ; Letters Patent sealed.</i>                                                                                                                                                               |
| CHEAVIN.<br>5th December 1853.           | 2820. SQUIER CHEAVIN, of Spalding, in the County of Lincoln, Plumber and Glazier, for an invention for—"A double-action or belt filterer."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                |
| SKILLMAN.<br>5th December 1853.          | 2821. BENJAMIN SKILLMAN, of Crosby Hall Chambers, in the City of London, Mining Agent, for an invention for—"An improved mode of preparing sheets of paper suitable for postal communication."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                      |
| SIMONS.<br>5th December 1853.            | 2822. WILLIAM SIMONS, of Glasgow, in the County of Lanark, North Britain, Ship Builder, for an invention for—"Improvements in propelling and steering vessels."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                                                     |
| MUIR.<br>5th December 1853.              | 2823. MATTHEW ANDREW MUIR, of Glasgow, in the County of Lanark, North Britain, Machinist, for an invention for—"Improvements in check and fancy weaving."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                 |
| PATTERSON.<br>5th December 1853.         | 2824. JOHN PATTERSON, of Beverley, in the County of York, Engineer, for an invention for—"Improvements in reaping machines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                              |
| STOREY.<br>5th December 1853.            | 2825. THOMAS STOREY, of the Phoenix Foundry, Lancaster, in the County of Lancaster, Engineer, for an invention for—"Improvements in the construction and arrangement of apparatus employed in connection with sewers."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                    |
| ROBERTSON.<br>5th December 1853.         | 2826. JAMES ROBERTSON, of Kentish Town, in the County of Middlesex, Cooper, for an invention for—"Improvements in the consumption or prevention of smoke."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                |
| LAVENDER.<br>5th December 1853.          | 2827. EDWARD LAVENDER, of Deptford, in the County of Kent, General Trader, for an invention for—"Improvements in apparatus for subjecting substances to the action of heat for the purpose of carbonizing, calcining, or combining such substances, or for subjecting such substances to the process of distillation."<br><i>Letters Patent sealed ; no specification filed.</i>                                                                                           |



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| OLDFIELD.<br>6th December 1853.             | 2828. EDWARD OLDFIELD, of the firm of Messieurs Oddy, Robinson, and Company, of Salford, in the County of Lancaster, Machine Makers, for an invention for—"Improvements in machinery for spinning and doubling." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                       |
| HADDAN.<br>6th December 1853.               | 2829. JOHN COOPE HADDAN, of Chelsea, in the County of Middlesex, Civil Engineer, for an invention for—"Improvements in the manufacture of cartridges and of wads or wadding for fire-arms." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                            |
| MOLD.<br>6th December 1853.                 | 2830. JOHN MOLD, of No. 6, Portland Terrace, Westmoreland Road, Wallworth, in the County of Surrey, for an invention for—"Improvement or addition to augment convenience, by transformation and facility, the different lines required in the erection or manufacturing edifices or structures by apparatus, tools, or instruments suitable for the different capacities of operatives and general surveying." <i>Complete specification; Letters Patent sealed.</i> |
| BELLFORD.<br>6th December 1853.             | 2831. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn (City), London, Patent Agent, for an invention for—"The manufacture of an artificial tartaric acid, and the application of the same to useful purposes."— <i>A communication. Letters Patent sealed.</i>                                                                                                                                                                                      |
| ROSS.<br>INGLIS.<br>6th December 1853.      | 2832. GEORGE ROSS and JAMES INGLIS, of Arbroath, N. B., Factory Managers, for an invention for—"Improvements in looms." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                                                |
| MILLS.<br>6th December 1853.                | 2833. THOMAS MILLS, of Leicester, for an invention for—"An improvement in the manufacture of lined gloves." <i>Provisional protection only.</i>                                                                                                                                                                                                                                                                                                                      |
| GAINE.<br>6th December 1853.                | 2834. WILLIAM EDWARD GAINE, of 4, Harewood Street, Harewood Square, for an invention for—"An improvement in treating or preparing paper." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                              |
| WITTY.<br>6th December 1853.                | 2835. ROBERT CHRISTOPHER WITTY, of 1, Portland Place, Wandsworth Road, in the County of Surrey, Engineer, for an invention for—"Improvements in the construction of boiler and other furnaces." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                        |
| JOHNSON.<br>6th December 1853.              | 2836. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in printing oil-cloths and other fabrics."— <i>A communication from Benjamin Underwood, of the City of Brooklyn, in the State of New York, United States of America. Letters Patent sealed.</i>                                                                                                      |
| BERNARD.<br>6th December 1853.              | 2837. JULIAN BERNARD, of 15, Regent Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in machinery or apparatus for stitching or uniting and ornamenting various materials." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                           |
| HARGRAVE.<br>6th December 1853.             | 2838. JOHN HARGRAVE, of Kirkstall, in the County of York, Worsted Manufacturer, for an invention for—"Certain improved apparatus for washing and scouring wool." <i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                                                                                                               |
| NEWTON.<br>6th December 1853.               | 2839. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in fire-arms and ordnance."— <i>A communication. Letters Patent sealed.</i>                                                                                                                                                                                                                        |
| SLATER.<br>HALLIWELL.<br>7th December 1853. | 2840. WILLIAM SLATER, and ROBERT HALLIWELL, both of Bolton-le-Moors, in the County of Lancaster, Foremen, for an invention for—"Improvements in machinery for spinning." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                               |
| BATES.<br>7th December 1853.                | 2841. LEWIS HARVEY BATES, of Bradford, in the County of York, Engineer, for an invention for—"Improvements in machinery for stamping and cutting metal nuts and other similar metal articles." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                         |
| KNOX.<br>7th December 1853.                 | 2842. ANDREW LAWSON KNOX, of Glasgow, Manufacturer, for an invention for—"Improvements in ornamenting a certain description of textile fabric." <i>Provisional protection NOT granted.</i>                                                                                                                                                                                                                                                                           |
| GETTY.<br>7th December 1853.                | 2843. JOHN GETTY, of Liverpool, in the County of Lancaster, Ship Builder, for an invention for—"Improvements applicable to the plating of iron ships, part of which improvements is also applicable to the construction of boilers." <i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                                           |



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| REEVE.<br>8th December 1853.                            | 2844. WILLIAM GEORGE REEVE, of Elizabeth Street, Eaton Square, in the County of Middlesex, Veterinary Surgeon, for an invention for—"An appendage to horse-shoes to supersede the necessity of roughing them as hitherto practised."<br><i>Provisional protection only.</i>                         |
| ADAMS.<br>8th December 1853.                            | 2845. WILLIAM BRIDGES ADAMS, of No. 1, Adam Street, Adelphi, in the County of Middlesex, Engineer, for an invention for—"Improvements in railway wheels, their axles and boxes."<br><i>Letters Patent sealed.</i>                                                                                   |
| HENLEY.<br>8th December 1853.                           | 2846. WILLIAM THOMAS HENLEY, of St. John Street Road, Electrical Engineer, for an invention for—"Improvements in electric telegraphs."<br><i>Letters Patent sealed.</i>                                                                                                                             |
| MORAU.<br>8th December 1853.                            | 2847. THOMAS MORAU, of the City of Dublin, Druggist, for an invention for—"An improved means or apparatus for the prevention of accidents on railways in certain cases."<br><i>Provisional protection only.</i>                                                                                     |
| SOLOMONS.<br>8th December 1853.                         | 2848. BENJAMIN SOLOMONS, of Albemarle Street, Piccadilly, in the County of Middlesex, Optician, for an invention for—"Improvements in telescopes and other glasses in their application to the measurement of distance."<br><i>Letters Patent sealed.</i>                                           |
| JAY.<br>8th December 1853.                              | 2849. WILLIAM CHICKALL JAY, of Regent Street, in the County of Middlesex, for an invention for—"An improved cloak."<br><i>Provisional protection only.</i>                                                                                                                                          |
| GODDARD.<br>YATES.<br>8th December 1853.                | 2850. JOSEPH GODDARD, and CHARLES YATES, both of Tottenham Court Road, for an invention for—"Certain improvements in machinery or apparatus for obtaining and applying motive-power."<br><i>Provisional protection only.</i>                                                                        |
| ROBINSON.<br>8th December 1853.                         | 2851. JOSEPH ROBINSON, of Denton Mill, Carlisle, for an invention for—"Improvements in mills for grinding corn and other substances."<br><i>Letters Patent sealed.</i>                                                                                                                              |
| NELSON.<br>BOYD.<br>8th December 1853.                  | 2852. JOHN NELSON, of Selby, in the County of York, and DAVID BOYD, of the same place, for an invention for—"Improvements in scutching flax and hemp."<br><i>Provisional protection only.</i>                                                                                                       |
| BEALL.<br>8th December 1853.                            | 2853. JAMES BEALL, of Effingham Place, Cheshunt, Herts, for an invention for—"Improvements in apparatus for applying sand to the rails of railways."<br><i>Letters Patent sealed.</i>                                                                                                               |
| NEWTON.<br>8th December 1853.                           | 2854. WILLIAM EDWARD NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Civil Engineer, for an invention for—"Improved machinery for drilling or boring rocks and other hard substances."<br><i>A communication.</i><br><i>Letters Patent sealed.</i>                |
| BORDONE.<br>8th December 1853.                          | 2855. PHILIPPE JOSEPH TOUSSAINT BORDONE, Medical Doctor, residing in Paris, for an invention for—"Improvements in extracting and treating the juice of beetroot and other vegetables."<br><i>Provisional protection only.</i>                                                                       |
| LAVERDET.<br>8th December 1853.                         | 2856. MARCEL GUSTAVE LAVERDET, of Paris, in the Empire of France, Artist, for an invention for—"An improved mode of treating photographic pictures."<br><i>Provisional protection only.</i>                                                                                                         |
| MURGATROYD.<br>8th December 1853.                       | 2857. BENJAMIN MURGATROYD, of Bradford, in the County of York, Dyer, for an invention for—"Improvements in washing or scouring wool and fabrics composed entirely or partly of that material."<br><i>Provisional protection only.</i>                                                               |
| ROTTRE.<br>9th December 1853.                           | 2858. JEAN BAPTISTE EDOUARD ROTTRE, Manufacturer, of Paris, Empire of France, and No. 5, Laurence Pountney Lane, London, for an invention for—"Improvements in machines for producing shoddy from woven fabrics, and for sorting the fibres of fibrous materials."<br><i>Letters Patent sealed.</i> |
| FOUQUE.<br>HÉBERT.<br>LE MARNEUR.<br>9th December 1853. | 2859. PIERRE MARIE FOUQUE, Civil Engineer, LOUIS RÉNÉ HÉBERT, & VINCENT ETIENNE DORET LE MARNEUR, of Paris, in the Empire of France, & of No. 5, Laurence Pountney Lane, Cannon Street, London, for an invention for—"Improvements in rudders."<br><i>Letters Patent sealed.</i>                    |
| JAMES.<br>9th December 1853.                            | 2860. ARTHUR JAMES, of Redditch, in the County of Worcester, Manufacturer, for an invention for—"Improvements in counting, measuring, and weighing needles, and in preparing papers to receive the same."<br><i>Letters Patent sealed.</i>                                                          |



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| CHRISTIE.<br>CULLEN.<br>9th December 1853.          | 2861. DUNCAN CHRISTIE, of Number 1, Bromley High Street, in the Parish of Bromley, in the County of Middlesex, Engineer, and JOHN CULLEN, of Number 1, Bromley High Street, in the Parish of Bromley, in the County of Middlesex, Engineer, for an invention for—"An atmospheric counter-balance slide valve for the steam-engine, hydraulic and all other machines in which the slide valve is used or required."<br><i>Letters Patent sealed.</i> |
| SHANKS.<br>9th December 1853.                       | 2862. ANDREW SHANKS, Engineer, of No. 6, Robert Street, Adelphi, Westminster, Middlesex, for an invention for—"Improvements in instruments and apparatus for indicating or measuring weights and pressures."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                       |
| MACKENZIE.<br>TURNBULL.<br>9th December 1853.       | 2863. CHARLES MACKENZIE, of Bayswater, in the County of Middlesex, Esquire, and ALEXANDER TURNBULL, of Manchester Square, in the County of Middlesex, Doctor of Medicine, both at present residing in Boston, in the State of Massachusetts, in the United States of America, for an invention for—"Machinery for paring fruit and vegetables."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                           |
| WINSPEAR.<br>9th December 1853.                     | 2864. JOHN WINSPEAR, of Liverpool, in the County of Lancaster, Civil Engineer, for an invention for—"An improved mode of coating metals, wood, stone, and plaster to preserve them from decay."<br><i>Provisional protection only.</i>                                                                                                                                                                                                              |
| ECCLES.<br>MASON.<br>KABERRY.<br>9th December 1853. | 2865. RICHARD ECCLES, of Wigan, in the County of Lancaster, Spinner, JOHN MASON, of Rochdale, in the said County, Machinist, and LEONARD KABERRY, of Rochdale aforesaid, Manager, for an invention for—"Improvements in slubbing and roving frames for cotton and other fibrous substances."<br><i>Letters Patent sealed.</i>                                                                                                                       |
| SUTCLIFFE.<br>9th December 1853.                    | 2866. JAMES SUTCLIFFE, of Manchester, in the County of Lancaster, Machinist, for an invention for—"Improvements in steam-engines, and in apparatus connected therewith."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                           |
| OSBOURN.<br>9th December 1853.                      | 2867. FREDERICK OSBOURN, of Aldersgate Street, in the City of London, Tailor, for an invention for—"Improvements applicable to the distribution of manure."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                        |
| CHISHOLM.<br>9th December 1853.                     | 2868. JOHN CHISHOLM, of Holloway, in the County of Middlesex, Practical Chemist, for an invention for—"Improvements in the distillation of organic substances and in obtaining products therefrom."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                |
| JOHNSON.<br>9th December 1853.                      | 2869. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in portable cases for containing provisions."— <i>A communication from Alexandre Desiré Eugene Boucher, of Paris, in the Empire of France, Merchant.</i><br><i>Letters Patent sealed.</i>                                                                                           |
| MORLEY.<br>9th December 1853.                       | 2870. GIDEON MORLEY, of Birmingham, in the County of Warwick, for an invention for—"Ornamenting or producing pictures on japanned goods, panels, canvases, or other material, whereby a vast amount of artistic skill and labour is superseded."<br><i>Provisional protection only.</i>                                                                                                                                                             |
| SCHAEFFER.<br>9th December 1853.                    | 2871. WILLIAM SCHAEFFER, of Stanhope Terrace, in the County of Middlesex, Chemist, for an invention for—"Improvements in purifying spirit."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                        |
| BOURNE.<br>9th December 1853.                       | 2872. JOHN BOURNE, of Port Glasgow, in the County of Renfrew, in Scotland, for an invention for—"Improvements in steam-engines."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                                   |
| BOURNE.<br>9th December 1853.                       | 2873. JOHN BOURNE, of Port Glasgow, in the County of Renfrew, in Scotland, for an invention for—"Improvements in machinery for the production of iron ships, and other similar structures."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                        |
| BOURNE.<br>9th December 1853.                       | 2874. JOHN BOURNE, of Port Glasgow, in the County of Renfrew, in Scotland, for an invention for—"Improvements in the construction of iron ships."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                  |
| BESSEMER.<br>9th December 1853.                     | 2875. HENRY BESSEMER, of Baxter House, Old St. Pancras Road, in the County of Middlesex, Engineer, for an invention for—"Improvements in the construction of railway axles and breaks."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                            |



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| MACPHERSON.<br>10th December 1853.   | 2876. ALLAN MACPHERSON, of Brussels, in the Kingdom of Belgium, Gentleman, for an invention for—"Improvements in disinfecting sewers or other drains or depositaries of fetid matters or gases, and in converting the contents thereof to useful purposes."<br><i>Letters Patent sealed.</i>                                                                           |
| MUIR.<br>10th December 1853.         | 2877. WILLIAM MUIR, of the Britannia Works, in the City of Manchester, Engineer and Machinist, for an invention for—"Improvements in machinery and apparatus for cutting out parts of garments."<br><i>Provisional protection only.</i>                                                                                                                                |
| COATES.<br>10th December 1853.       | 2878. CHARLES COATES, of Sunnyside, near Rawtenstall, in the County of Lancaster, Mechanic, in the employ of Messieurs Butterworth & Brooks, of Sunnyside aforesaid, for an invention for—"Improvements in and applicable to looms for weaving."<br><i>Letters Patent sealed.</i>                                                                                      |
| DU BOST.<br>10th December 1853.      | 2879. HIPPOLYTE LAURENT DU BOST, of No. 62, Rue Neuve des Petits Champs, à Paris, at present in London, at the Hotel de France, No. 21, New Street, Covent Garden, for an invention for—"Improvements in the construction of locks and keys."<br><i>Letters Patent sealed; no specification filed.</i>                                                                 |
| JOHNSON.<br>10th December 1853.      | 2880. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in moulding, more particularly applicable to toothed wheels."— <i>A communication from Monsieur De Louvrié, of St. Marc, in the Empire of France, Engineer.</i><br><i>Provisional protection only.</i> |
| JOHNSON.<br>10th December 1853.      | 2881. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in furnaces for the manufacture of steel."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                   |
| GREEN.<br>10th December 1853.        | 2882. EDWARD GREEN, of Wakefield, in the County of York, Engineer, for an invention for—"Improvements in boilers and furnaces."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                       |
| GUIBERT.<br>10th December 1853.      | 2883. NICOLAS VICTOR GUIBERT, of Paris, France, and of 4, South Street, Finsbury, London, Practical Engineer, for an invention for—"Improvements in forge-hammers."<br><i>Letters Patent sealed.</i>                                                                                                                                                                   |
| THORNLEY.<br>10th December 1853.     | 2884. WILLIAM THORNLEY, of Clayton West, in the County of York, Manager, for an invention for—"An improved manufacture of woven fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                             |
| WHITEHOUSE.<br>12th December 1853.   | 2885. EDWARD ORANGE WILDMAN WHITEHOUSE, of Brighton, in the County of Sussex, Surgeon, for an invention for—"Improvements in effecting telegraphic communications."<br><i>Letters Patent sealed.</i>                                                                                                                                                                   |
| HOLLINSWORTH.<br>12th December 1853. | 2886. THOMAS HOLLINSWORTH, of Winwick, near Warrington, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in the method of applying 'breaks' to carriages employed upon railways, and in the machinery or apparatus connected therewith."<br><i>Letters Patent sealed.</i>                                                              |
| EVANS.<br>12th December 1853.        | 2887. WILLIAM EVANS, of Myrtle Street, Hoxton, in the County of Middlesex, for an invention for—"Improvements in obtaining and applying motive-power."<br><i>Provisional protection only.</i>                                                                                                                                                                          |
| REDGRAVE.<br>13th December 1853.     | 2888. WILLIAM REDGRAVE, of Croxley Green, Rickmansworth, in the County of Hertford, for an invention for—"The improved safety travelling cap."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                        |
| HANNAY.<br>13th December 1853.       | 2889. GEORGE KERR HANNAY, Author, at Ulverston, in the County of Lancashire, for an invention for—"The combination and manufacture of composition, grinding wheels, hones, and other grinding bodies."<br><i>Letters Patent sealed.</i>                                                                                                                                |
| WANSBROUGH.<br>13th December 1853.   | 2890. JAMES WANSBROUGH, of the Grove, Guildford Street, Southwark, in the County of Surrey, Waterproofer, for an invention for—"Improvements in the manufacture of waterproof fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                               |
| PLUMMER.<br>13th December 1853.      | 2891. WILLIAM FREDERICK PLUMMER, of St. Mary's Overy Wharf, in the Borough of Southwark, Machanist, for an invention for—"Improved machinery for grinding or crushing animal, vegetable, and mineral substances."<br><i>Letters Patent sealed.</i>                                                                                                                     |



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| SCHIELE.<br>13th December 1853.                | 2892. CHRISTIAN SCHIELE, of North Moor Foundry, Oldham, in the County of Lancaster, Engineer, for an invention for—"Improvements in preventing undue oscillation in engines, machinery, carriages and other apparatus."<br><i>Letters Patent sealed.</i>                                                      |
| GUESDRON.<br>13th December 1853.               | 2893. ANDRÉ GASPARD GUESDRON, of Montmartre, Paris, France, Merchant, for an invention for—"An improvement in or addition to sugar-basins."<br><i>Provisional protection only.</i>                                                                                                                            |
| GUESDRON.<br>13th December 1853.               | 2894. ANDRÉ GASPARD GUESDRON, of Montmartre, Paris, France, Merchant, for an invention for—"A method of producing plans in relievo."<br><i>Provisional protection only.</i>                                                                                                                                   |
| GRANT.<br>14th December 1853.                  | 2895. PHILIP GRANT, of the City of Manchester, in the County of Lancaster, Letterpress Printer and Stationer, for an invention for—"Improvements in printing presses."<br><i>Letters Patent sealed.</i>                                                                                                       |
| GATTY.<br>KOPP.<br>14th December 1853.         | 2896. FREDERICK ALBERT GATTY, of Accrington, in the County of Lancaster, Manufacturing Chemist, and EMILE KOPP, of Accrington aforesaid, Professor of Chemistry, for an invention for—"Improvements in printing and dyeing cotton-wool, silk, and other fibrous substances."<br><i>Letters Patent sealed.</i> |
| COFFEY.<br>14th December 1853.                 | 2897. JOHN AMBROSE COFFEY, of Providence Row, Finsbury, in the County of Middlesex, Pharmaceutical Engineer, for an invention for—"An improved method of evaporating liquids."<br><i>Letters Patent sealed.</i>                                                                                               |
| BEANES.<br>14th December 1853.                 | 2898. EDWARD BEANES, of No. 57 Charlotte Street, Portland Place, in the County of Middlesex, for an invention for—"Improvements in the manufacture and refining of sugar."<br><i>Letters Patent sealed.</i>                                                                                                   |
| KAY.<br>14th December 1853.                    | 2899. JOHN ZUILL KAY, of Dundee, in the County of Forfar, Gas Engineer, for an invention for—"Improvements in gas-meters."<br><i>Letters Patent sealed.</i>                                                                                                                                                   |
| FULLWOOD.<br>14th December 1853.               | 2900. BENJAMIN FULLWOOD, 23, Abbey Street, Bermondsey, in the County of Surrey, Manufacturing Chemist, for an invention for—"Certain improvements in the manufacture of cement."<br><i>Letters Patent sealed.</i>                                                                                             |
| WIBBERLEY.<br>14th December 1853.              | 2901. JOHN WIBBERLEY, of Eagley, near Bolton, in the County of Lancaster, Mechanic, for an invention for—"Certain improvements in machinery or apparatus for winding yarns or threads on to spools or bobbins."<br><i>Letters Patent sealed.</i>                                                              |
| KING.<br>14th December 1853.                   | 2902. RICHARD JAMES NORMAN KING, of the City of Exeter, Dentist, for an invention for—"An improved artificial bait for fish."<br><i>Provisional protection only.</i>                                                                                                                                          |
| PARROCK.<br>14th December 1853.                | 2903. ROBERT PARROCK, of Glasgow, in the County of Lanark, North Britain, Tailor, for an invention for—"Improvements in coats and similar articles of dress."<br><i>Provisional protection only.</i>                                                                                                          |
| JOHNSON.<br>14th December 1853.                | 2904. WILLIAM BECKETT JOHNSON, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Improvements in machinery or apparatus for making bricks and other articles from clay and other plastic materials."<br><i>Letters Patent sealed.</i>                                                |
| RASCOL.<br>15th December 1853.                 | 2905. EUGENE HIPPOLYTE RASCOL, of Catherine Street, Strand, in the County of Middlesex, Gentleman, for an invention for—"Improvements in retorts for the manufacture of gas."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                       |
| MESSENGER.<br>15th December 1853.              | 2906. SAMUEL MESSENGER, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"An improvement or improvements in railway, ship, and carriage lamps."<br><i>Letters Patent sealed.</i>                                                                                                   |
| PUGH.<br>KENNARD.<br>15th December 1853.       | 2907. THOMAS PUGH and WILLIAM KENNARD, both of King Street, Snow Hill, in the City of London, Ironmongers, for an invention for—"Improvements in lock and latch spindles."<br><i>Provisional protection only.</i>                                                                                             |
| HOWELL.<br>SHORTBRIDGE.<br>15th December 1853. | 2908. JOSEPH BENNETT HOWELL, of Sheffield, in the County of York, Steel Manufacturer, and JOHN SHORTBRIDGE, also of Sheffield, in the County of York, Gentleman, for an invention for—"An improvement or improvements in the helves of tilt-hammers."<br><i>Provisional protection only.</i>                  |
| VIVIEN.<br>15th December 1853.                 | 2909. JACQUES PIERRE HENRI VIVIEN, Manufacturer, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"Certain improvements in the manufacture of paper and pasteboard."<br><i>Letters Patent sealed.</i>                                                |



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| BELLFORD.<br>15th December 1853.           | 2910. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, in the City of London, Patent Agent, for an invention for—"An improvement in 'blasting powder,' for mining, and other operations of a similar nature."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                          |
| CALLIER.<br>15th December 1853.            | 2911. AIGNAN BERNARD CALLIER, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"Certain improvements in the manufacture of umbrellas and parasols."<br><i>Letters Patent sealed.</i>                                                                                     |
| PASCAL.<br>15th December 1853.             | 2912. JEAN BAPTISTE PASCAL, of Lyons, in the Empire of France, and of 16, Castle Street, Holborn, City of London, for an invention for—"Certain improvements in obtaining motive-power."<br><i>Letters Patent sealed.</i>                                                                                                         |
| BRANSTON.<br>15th December 1853.           | 2913. FREDERICK WILLIAM BRANSTON, of Oak Tree House, Clapham, in the County of Surrey, for an invention for—"Improvements in certain tablets, labels, and signs, or their surfaces, exhibiting letters and designs."<br><i>Letters Patent sealed.</i>                                                                             |
| MORRIS.<br>15th December 1853.             | 2914. CHARLES JOHN MORRIS, of Kirby Street, Hatton Garden, for an invention for—"Certain improvements in book-binding."<br><i>Provisional protection only.</i>                                                                                                                                                                    |
| WHITAKER.<br>15th December 1853.           | 2915. BENJAMIN WHITAKER, of Brighton, in the County of Sussex, Engineer & Machinist, for an invention for—"Improvements in the manufacture or production of useful toys."<br><i>Letters Patent sealed.</i>                                                                                                                        |
| COCHRAN.<br>15th December 1853.            | 2916. ALEXANDER COCHRAN, of Kirkton Bleach Works, in the County of Renfrew, North Britain, Bleacher, for an invention for—"Improvements in the application of starch or other substances of a similar nature to woven fabrics, and in the machinery or apparatus employed therein."<br><i>Letters Patent sealed.</i>              |
| GIBORY.<br>15th December 1853.             | 2917. FERDINAND DENIS GIBORY, of Paris, in the French Empire, for an invention for—"Improvements in instruments for ascertaining heights and distances, and for levelling."<br><i>Provisional protection only.</i>                                                                                                                |
| REDFORD.<br>CLOAKE.<br>15th December 1853. | 2918. ARTHUR BENJAMIN SAMUEL REDFORD, of Albion Place, Walworth Road, in the County of Surrey, Printer, and THOMAS CLOAKE, of Saville Row, Walworth Road, in the same County, Watchmaker, for an invention for—"Improvements in retarding and stopping the progress of railway carriages."<br><i>Provisional protection only.</i> |
| BINNION.<br>16th December 1853.            | 2919. WILLIAM BINNION, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in carriage and other lamps."<br><i>Letters Patent sealed.</i>                                                                                                                                                   |
| WHITEHEAD.<br>16th December 1853.          | 2920. WALTER GEORGE WHITEHEAD, of Birmingham, in the County of Warwick, Accountant Clerk, for an invention for—"An improvement or improvements in hats, caps, bonnets, and other coverings for the head."<br><i>Provisional protection only.</i>                                                                                  |
| TRANter.<br>16th December 1853.            | 2921. WILLIAM TRANter, of Birmingham, in the County of Warwick, Gun-maker, for an invention for—"Certain improvements in fire-arms and in bullets & waddings to be used therewith."<br><i>Letters Patent sealed.</i>                                                                                                              |
| LIMOUSIN.<br>16th December 1853.           | 2922. ANTOINE LIMOUSIN, Weaver, of Paris, Empire of France, and of No. 5, Laurence Pountney Lane, London, for an invention for—"Improvements in looms for weaving pile-fabrics, and in a mode and apparatus for cutting the pile."<br><i>Letters Patent sealed.</i>                                                               |
| MÉDAIL.<br>16th December 1853.             | 2923. ALPHONSE MÉDAIL, of Paris, in the Empire of France, and of 4, Trafalgar Square, Charing Cross, in the County of Middlesex, for an invention for—"An improved hydraulic machine."<br><i>Letters Patent sealed.</i>                                                                                                           |
| WILLIAMS.<br>16th December 1853.           | 2924. THOMAS WILLIAMS, of South Castle Street, Liverpool, in the County of Lancaster, Gun-maker, for an invention for—"An improved revolving pistol."<br><i>Letters Patent sealed.</i>                                                                                                                                            |
| TRUSS.<br>16th December 1853.              | 2925. THOMAS SEAVILLE TRUSS, of Cannon Street, in the City of London, Mechanical Engineer, for an invention for—"Improvements in brakes for railway-carriages and other vehicles."<br><i>Provisional protection only.</i>                                                                                                         |
| TRUSS.<br>16th December 1853.              | 2926. THOMAS SEAVILLE TRUSS, of Cannon Street, in the City of London, Mechanical Engineer, for an invention for—"Improvements in apparatus for communicating between the engine-driver and the guard of railway-trains."<br><i>Provisional protection only.</i>                                                                   |



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| JOHNSON.<br>16th December 1853.   | 2927. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman. for an invention for—"Improvements in dyeing."— <i>A communication from Monsieur Bellancourt, of Rheims, in the Empire of France, Manufacturer.</i><br><i>Provisional protection only.</i>                                                                                                |
| JOHNSON.<br>16th December 1853.   | 2928. JOHN HENRY JOHNSON, of 47, Lincoln's Inn Fields, in the County of Middlesex, and of Glasgow, North Britain, Gentleman, for an invention for—"Improvements in the treatment or preparation of wool, and of the wash-waters employed in such treatment."— <i>A communication from Messieurs Villermet and Mannheimer, of Paris, in the Empire of France, Manufacturers.</i><br><i>Provisional protection only.</i> |
| NORRIS.<br>16th December 1853.    | 2929. STEPHEN NORRIS, of New Peter Street, Horseferry Road, in the County of Middlesex, for an invention for—"Improvements in lighting and extinguishing gas-lamps."<br><i>Provisional protection only.</i>                                                                                                                                                                                                            |
| SMITH.<br>16th December 1853.     | 2930. SAMUEL SMITH, of Horton Dye Works, near Bradford, in the County of York, for an invention for—"Improvements in preparing rovings and yarns of wool."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                            |
| PARKES.<br>16th December 1853.    | 2931. ALEXANDER PARKES, of Birmingham, for an invention for—"Improvements in separating silver from its ores or other compounds."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                                                                                                                                             |
| HALL.<br>16th December 1853.      | 2932. ROBERT BURT HALL, of Whitecross Street, Engineer, for an invention for—"Improvements in crushing and grinding quartz, minerals, and other matters."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                       |
| GOODYEAR.<br>16th December 1853.  | 2933. CHARLES GOODYEAR, of Saint John's Wood, in the County of Middlesex, for an invention for—"Improvements in the treatment and manufacture of india-rubber."— <i>Partly a communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                                                                                       |
| KNOX.<br>16th December 1853.      | 2934. ANDREW LAWSON KNOX, of Glasgow, Manufacturer, for an invention for—"Improvements in ornamenting certain descriptions of textile fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                       |
| THOMSON.<br>16th December 1853.   | 2935. HENRY THOMSON, of Clitheroe, in the County of Lancaster, Calico Printer, for an invention for—"Improvements in machinery or apparatus for stretching textile fabrics as they are wound into laps or rolls after the processes of bleaching and dyeing or operations connected therewith."<br><i>Letters Patent sealed.</i>                                                                                       |
| WATHMAN.<br>16th December 1853.   | 2936. ROBERT WILLIAM WATHMAN, of Benthams House, in the County of York, Esquire, for an invention for—"Improvements in belts or bands for driving machinery for use in mines and for other purposes."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                 |
| BAILEY.<br>17th December 1853.    | 2937. JOSEPH SHARP BAILEY, of Keighly, in the County of York, for an invention for—"Improvements in machinery for operating upon wool, alpaca, mohair, and other fibrous materials, preparatory and prior to being spun."<br><i>Letters Patent sealed.</i>                                                                                                                                                             |
| HORTON.<br>17th December 1853.    | 2938. JOSHUA HORTON, of Birmingham, in the County of Warwick, Manufacturer, for an invention for—"Improvements in the manufacture of certain kinds of metallic vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                              |
| ANDERSON.<br>17th December 1853.  | 2939. GEORGE ANDERSON, of the Gas Works, Rotherhithe, in the County of Surrey, Gas Engineer, for an invention for—"Improvements in apparatus used when manufacturing gas, which apparatus or part of which is also applicable when transmitting gas from one place to another."<br><i>Letters Patent sealed.</i>                                                                                                       |
| BEDDELLS.<br>17th December 1853.  | 2940. CALEB BEDDELLS, of Leicester, for an invention for—"Improvements in the manufacture of elastic fabrics."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                                                                                        |
| STIRLING.<br>17th December 1853.  | 2941. JOHN DAVIE MORRIES STIRLING, of the Larches, near Birmingham, for an invention for—"Improvements in the manufacture of iron."<br><i>Provisional protection only.</i>                                                                                                                                                                                                                                             |
| GREENWOOD.<br>17th December 1853. | 2942. JOHN GREENWOOD, of 10, Arthur Street, West, London Bridge, for an invention for—"Improvements in preventing drafts of air into rooms and places when the doors and windows are shut."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                           |



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| JAMES.<br>17th December 1853.                 | 2943. ISAAC JAMES, of Cheltenham, in the County of Gloucester, Wheelwright, for an invention for—"Improvements in carts for distributing water or liquid manure."<br><i>Letters Patent sealed.</i>                                                                                                                                                           |
| HOUGHTON.<br>STEWART.<br>17th December 1853.  | 2944. MATTHEW PARSONS HOUGHTON, of Hillmorton, in the County of Warwick, Clerk, and ANDREW STEWART, of Hillmorton aforesaid, Mechanic, for an invention for—"An improved means of preventing accidents upon railways."<br><i>Letters Patent sealed.</i>                                                                                                      |
| COCKINGS.<br>17th December 1853.              | 2945. JAMES SEPTIMUS COCKINGS, of Birmingham, in the County of Warwick, Patent Agent, for an invention for—"Improvements in buttons and other dress fastenings, part of which is also applicable for other purposes."<br><i>Letters Patent sealed.</i>                                                                                                       |
| WHEWELL.<br>17th December 1853.               | 2946. ROBERT WHEWELL, of Little Bolton, Bolton-le-Moors, in the County of Lancaster, Printer and Bookbinder, for an invention for—"Improvements in machines used for cutting paper."<br><i>Letters Patent sealed.</i>                                                                                                                                        |
| MILWARD.<br>19th December 1853.               | 2947. HENRY MILWARD, of Redditch, in the County of Worcester, Manufacturer, for an invention for—"New or improved machinery for manufacturing needles and fish-hooks."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                                             |
| TRIBELHORN.<br>BOLLEY.<br>19th December 1853. | 2948. JOHN TRIBELHORN, of St. Gall, Manufacturer, and DR. POMPEJUS BOLLEY, of Aarau, Professor of Chemistry, both of Switzerland, for an invention for—"Improvements in the process of bleaching vegetable fibrous substances."— <i>A communication from Charles Custer, of Altstaetten, near St. Gall, in Switzerland.</i><br><i>Letters Patent sealed.</i> |
| BELLFORD.<br>19th December 1853.              | 2949. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn, in the City of London, Patent Agent, for an invention for—"Improvements in paddle-wheels for propelling vessels."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                                                                          |
| CROSSBY.<br>19th December 1853.               | 2950. WILLIAM CROSSBY, Miller, Devonshire Street, Sheffield, Yorkshire, for an invention for—"The ventilation of granaries, storehouses, or places of deposit for grain whatsoever; and for improvements in the grinding of grain, and dressing of grist, and grinding generally."<br><i>Provisional protection only.</i>                                    |
| BELLFORD.<br>19th December 1853.              | 2951. AUGUSTE EDOUARD LORADOUX BELLFORD, of 16, Castle Street, Holborn (City), London, Patent Agent, for an invention for—"Certain improvements in presses for expressing oil or other fluids from fruits, grains, or other substances."— <i>A communication.</i><br><i>Letters Patent sealed.</i>                                                           |
| WAYGOOD.<br>19th December 1853.               | 2952. RICHARD WAYGOOD, of Newington Causeway, in the County of Surrey, Ironfounder, for an invention for—"Improvements in portable forges."<br><i>Provisional protection only.</i>                                                                                                                                                                           |
| GOLDTHORP.<br>19th December 1853.             | 2953. DAVID GOLDTHORP, of Cleckheaton, near Leeds, in the County of York, for an invention for—"An improved propeller."<br><i>Provisional protection only.</i>                                                                                                                                                                                               |
| PATERSON.<br>20th December 1853.              | 2954. ADAM PATERSON, of Westminster, in the County of Middlesex, for an invention for—"An improved cooking apparatus."<br><i>Letters Patent sealed.</i>                                                                                                                                                                                                      |
| CAMPBELL.<br>20th December 1853.              | 2955. JAMES HUNTER CAMPBELL, of No. 1, King's Arm Yard, Coleman Street, in the City of London, Esquire, for an invention for—"An improvement in machinery for cutting corks."<br><i>Letters Patent sealed.</i>                                                                                                                                               |
| CLARK.<br>20th December 1853.                 | 2956. JOSIAH LATIMER CLARK, of 2, Chester Villas, Canonbury Park South, Islington, for an invention for—"An improvement in insulating wire used for electric telegraphs, with a view to obviate the effects of return or inductive currents."<br><i>Letters Patent sealed.</i>                                                                               |
| DE GERGY.<br>20th December 1853.              | 2957. HENRIETTE ELISA FARION DE GERGY, veuve Durut, of Paris, in the French Empire, for an invention for—"Certain improvements in the manufacture of bread."<br><i>Letters Patent sealed.</i>                                                                                                                                                                |
| WAGENMANN.<br>20th December 1853.             | 2958. PAUL WAGENMANN, of Bonn, Rhenish Prussia, for an invention for—"Improvements in the manufacture of liquid hydro-carbons and paraffine."<br><i>Letters Patent sealed.</i>                                                                                                                                                                               |



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| BOYDELL.<br>20th December 1853.            | 2959. JAMES BOYDELL, of Gloucester Crescent, in the County of Middlesex, for an invention for—"Improvements in the manufacture of wrought-iron frames."<br><i>Letters Patent sealed.</i>                                                                                                                                  |
| LEMAIRE.<br>20th December 1853.            | 2960. EMILE VICTOR FELIX LEMAIRE, of 2, Rue Drouot, Paris, for an invention for—"Improvements in tanning."<br><i>Letters Patent sealed.</i>                                                                                                                                                                               |
| WEBSTER.<br>20th December 1853.            | 2961. JOHN WEBSTER, at Messrs. Nobles and Hoare's of 3, Cornwall Road Stamford Street, in the County of Surrey, for an invention for—"Improvements in acting on drying oils, and preparing varnishes."<br><i>Letters Patent sealed.</i>                                                                                   |
| BURROWS.<br>20th December 1853.            | 2962. JAMES BURROWS, of Haigh Foundry, near Wigan, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in the formation of such metallic plates as are required to be conjoined by rivetting or other similar fastening."<br><i>Letters Patent sealed.</i>                                   |
| BURROWS.<br>20th December 1853.            | 2963. JAMES BURROWS, of Haigh Foundry, near Wigan, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in the construction of steam boilers or generators, and in the arrangement of furnaces connected therewith."<br><i>Letters Patent sealed.</i>                                         |
| THOMSON.<br>20th December 1853.            | 2964. ARCHIBALD THOMSON, of Glasgow, in the County of Lanark, North Britain, Iron Ship Builder, for an invention for—"Improvements in setting out and marking the rivet-holes in the plates used in constructing iron ships, boats, boilers, and other vessels."<br><i>Letters Patent sealed.</i>                         |
| HUYGENS.<br>20th December 1853.            | 2965. R. B. HUYGENS, of Holland, now of 89, Chancery Lane, London, for an invention for—"Improvements in machinery for crushing, washing, and amalgamating gold and other ores and substances."<br><i>Letters Patent sealed.</i>                                                                                          |
| BOCCIUS.<br>21st December 1853.            | 2966. GOTLIEB BOCCIUS, of Hammersmith, in the County of Middlesex, Gentleman, for an invention for—"Certain apparatus adapted to the breeding and rearing of fish."<br><i>Letters Patent sealed.</i>                                                                                                                      |
| FARRINGTON.<br>21st December 1853.         | 2967. CHARLES JAMES FARRINGTON, of Hampstead, in the County of Middlesex, for an invention for—"Improvements in signalling and preventing collisions on railways by electrical communication."<br><i>Provisional protection only.</i>                                                                                     |
| KOHNSTAMM.<br>21st December 1853.          | 2968. HEIMAN KOHNSTAMM, of 7, Union Court, Old Broad Street (City), London, for an invention for—"Certain improvements in the manufacture of imitation leather."<br><i>Letters Patent sealed.</i>                                                                                                                         |
| LEE.<br>21st December 1853.                | 2969. THOMAS VINCENT LEE, of No. 4, Lockyer Terrace, Plymouth, Devon, Civil Engineer, but now residing at No. 5, Bedford Row, in the City of Dublin, for an invention for—"Improvements in the construction of certain machinery and apparatus for the manufacture of bricks and tiles."<br><i>Letters Patent sealed.</i> |
| DINNING.<br>INGLIS.<br>21st December 1853. | 2970. JAMES DINNING and WILLIAM INGLIS, both of the Town and County of Southampton, for an invention for—"An improved apparatus for purifying and filtering residuous water."<br><i>Provisional protection only.</i>                                                                                                      |
| JONES.<br>21st December 1853.              | 2971. JOHN JONES, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in propelling vessels."<br><i>Letters Patent sealed.</i>                                                                                                                                               |
| JONES.<br>21st December 1853.              | 2972. JOHN JONES, of Glasgow, in the County of Lanark, North Britain, Engineer, for an invention for—"Improvements in governors or regulators for steam-engines and other machinery."<br><i>Provisional protection only.</i>                                                                                              |
| YOUIL.<br>22nd December 1853.              | 2973. JOHN YOUIL, of Burton-upon-Trent, in the County of Stafford, Common Brewer, for an invention for—"Improvements in the mode or method of obtaining power to raise liquids, and of treating the said liquids when raised, and of using them to obtain additional power."<br><i>Provisional protection only.</i>       |
| BESNARD.<br>22nd December 1853.            | 2974. LOUIS ADOLPHE FERDINAND BESNARD, of Paris, in the Empire of France, but now temporarily staying at No. 35, Essex Street, Strand, for an invention for—"A new system of painting by means of lithography without leaving a particle of paper upon the canvas."<br><i>Provisional protection only.</i>                |



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| FONTAINE MOREAU.<br>22nd December 1853.                 | 2975. PETER ARMAND LE COMTE DE FONTAINE MOREAU, of 4, South Street, Finsbury, London, and of 39, Rue de l'Echiquier Paris, Patent Agent, for an invention for—"Certain improvements in constructing and applying connecting rods."— <i>A communication.</i><br><i>Provisional protection only.</i>                           |
| WOODHOUSE.<br>22nd December 1853.                       | 2976. WILLIAM HENRY WOODHOUSE, of Parliament Street, in the City of Westminster, Civil Engineer, for an invention for—"Improvements in the construction of roads, ways, and ducts." <i>Provisional protection only.</i>                                                                                                      |
| LEWIS.<br>22nd December 1853.                           | 2977. CHARLES LEWIS, of Hull, in the County of York, Master Mariner, for an invention for—"An improved lamp for signalling." <i>Letters Patent sealed.</i>                                                                                                                                                                   |
| MURGATROYD.<br>22nd December 1853.                      | 2978. BENJAMIN MURGATROYD, of Bradford, in the County of York, Dyer, for an invention for—"Improvements in washing or scouring wool, alpaca, and mohair, and fabrics composed entirely or partly of those materials." <i>Letters Patent sealed.</i>                                                                          |
| BERRY.<br>MANGNALL.<br>CHADWICK.<br>22nd December 1853. | 2979. THOMAS BERRY, of Rochdale, in the County of Lancaster, Machinist, JAMES MANGNALL, of Heywood, in the said County, Manager, and JOHN CHADWICK, of Heywood aforesaid, Manufacturer, for an invention for—"Improvements in winding and twisting wool, cotton, and other fibrous materials." <i>Letters Patent sealed.</i> |
| GIBBONS.<br>22nd December 1853.                         | 2980. JAMES GIBBONS the younger, of Wolverhampton, in the County of Stafford, Lock Manufacturer, for an invention for—"Improvements in locks and latches." <i>Letters Patent sealed.</i>                                                                                                                                     |
| SHAW.<br>22nd December 1853.                            | 2981. JOSEPH SHAW, Pianoforte Manufacturer, of Hatton Garden, in the County of Middlesex, for an invention for—"Improvements in pianofortes."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                         |
| GILLOW.<br>23rd December 1853.                          | 2982. JOHN GILLOW, junior, of Northwich, in the County of Chester, Salt Proprietor, for an invention for—"Certain improvements in the manufacture of salt." <i>Provisional protection only.</i>                                                                                                                              |
| BRITTEN.<br>23rd December 1853.                         | 2983. JOHN BRITTEN, of Birmingham, in the County of Warwick, Engineer, for an invention for—"Improvements in girders, bridges, roofs, and other such like structures." <i>Provisional protection only.</i>                                                                                                                   |
| O'NEIL.<br>23rd December 1853.                          | 2984. JOHN O'NEIL, of Bury, in the County of Lancaster, Manager, for an invention for—"An improvement in apparatus for drawing condensed steam and air from pipes or other chambers in which steam is used." <i>Provisional protection only.</i>                                                                             |
| BENNOCH.<br>23rd December 1853.                         | 2985. FRANCIS BENNOCH, of Wood Street, Cheapside, in the City of London, for an invention for—"Improvements in coating silk and other yarn, or thread with gold or other metal."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                      |
| PFEIFFER.<br>23rd December 1853.                        | 2986. JEAN DANIEL PFEIFFER, of Paris, France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"Improvements in machinery or apparatus for cutting paper and similar materials." <i>Letters Patent sealed.</i>                                                                                      |
| COLES.<br>24th December 1853.                           | 2987. RICHARD GEORGE COLES, at Cheltenham, in the County of Gloucester, a Lieutenant in Her Majesty's Royal Regiment of Foot, for an invention for—"Improvements in the locks of fire-arms." <i>Provisional protection only.</i>                                                                                             |
| GAULTIER.<br>24th December 1853.                        | 2988. JOSEPH GAULTIER, of Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"An improved apparatus for washing and bleaching." <i>Letters Patent sealed.</i>                                                                                                         |
| GOUTARET.<br>24th December 1853.                        | 2989. GEORGE GOUTARET, of Paris, in the Empire of France, and of 4, South Street, Finsbury, London, Gentleman, for an invention for—"A new system of propulsion." <i>Provisional protection only.</i>                                                                                                                        |
| MARGERISON.<br>24th December 1853.                      | 2990. JOSHUA MARGERISON, of Preston, in the County of Lancaster, Agent, for an invention for—"Improvements in railway breaks." <i>Provisional protection only.</i>                                                                                                                                                           |
| HARDINGE.<br>24th December 1853.                        | 2991. HARRIS HARDINGE, of the City and State of New York, United States of America, for an invention for—"Manufacturing liquid quartz or silice, to be used in the manufacture of certain compositions for ornamental and useful purposes." <i>Letters Patent sealed.</i>                                                    |



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| BUCHHOLZ.<br>24th December 1853.            | 2992. GUSTAV ADOLPH BUCHHOLZ, of Gould Square, Crutched Friars, in the City of London, Civil Engineer, for an invention for—"Improved machinery for the cleaning and hulling or dressing of rice, wheat, and other grain."<br><i>Letters Patent sealed.</i>                                                  |
| LEWIS.<br>24th December 1853.               | 2993. JOSEPH LEWIS, of Salford, in the County of Lancaster, Machinist, for an invention for "Improvements in apparatus for drilling or boring metals and other substances."<br><i>Letters Patent sealed.</i>                                                                                                 |
| COOPER.<br>24th December 1853.              | 2994. THOMAS COOPER, of the firm of Cooper and Eustace, of Leeds, in the County of York, Bookbinders, for an invention for—"An improvement applicable to the binding of ledgers and other books."<br><i>Provisional protection only.</i>                                                                     |
| MAKIN.<br>27th December 1853.               | 2995. THOMAS WILLIAMS MAKIN, of the City of Manchester, in the County of Lancaster, Silk-finisher, for an invention for—"Improvements in machinery or apparatus for finishing woven fabrics."<br><i>Letters Patent sealed.</i>                                                                               |
| HUGHES.<br>7th December 1853.               | 2996. EDWARD JOSEPH HUGHES, of the City of Manchester, in the County of Lancaster, Patent Agent, for an invention for—"Improvements in sewing-machines."<br><i>A communication. Letters Patent sealed.</i>                                                                                                   |
| CALVERT.<br>27th December 1853.             | 2997. FREDERICK CRACE CALVERT, of the City of Manchester, in the County of Lancaster, Professor of Chemistry, for an invention for—"Improvements in the treatment of naphthas and other volatile hydrocarbons, and in the application of the same."<br><i>A communication. Letters Patent sealed.</i>        |
| MACKELCAN.<br>27th December 1853.           | 2998. GEORGE JOSIAH MACKELCAN, of Lechlade, Gloucester, Agricultural Implement Maker, for an invention for—"Improvements in winnowing or corn dressing machines."<br><i>Provisional protection only.</i>                                                                                                     |
| SEDGWICK.<br>DAWSON.<br>27th December 1853. | 2999. SAMUEL SEDGWICK and THOMAS DAWSON, of 186, Piccadilly, for an invention for—"Improvements in the moderator lamp, or in lamps of a similar principle."<br><i>Letters Patent sealed.</i>                                                                                                                 |
| PRIDEAUX.<br>27th December 1853.            | 3000. THOMAS SYMES PRIDEAUX, of St. John's Wood, in the County of Middlesex, for an invention for—"Improvements in apparatus for regulating the supply of air to furnaces, and for preventing radiation of heat from fire-doors and other parts of the fronts of furnaces."<br><i>Letters Patent sealed.</i> |
| MOLYNEAUX.<br>27th December 1853.           | 3001. THOMAS MOLYNEAUX, of Manchester, in the County of Lancaster, Engineer, for an invention for—"Certain improvements in winding and doubling silk, a part of which improvements is applicable to the treatment of other fibrous substances."<br><i>Provisional protection only.</i>                       |
| PARKINSON.<br>23th December 1853.           | 3002. JOHN PARKINSON, of Bury, in the County of Lancaster, Brass-founder, for an invention for—"Improvements in governors for regulating the pressure of steam, gas, and other fluids or liquids."<br><i>Letters Patent sealed.</i>                                                                          |
| MOFFAT.<br>23th December 1853.              | 3003. JOHN MOFFATT, of Heiton, in the County of Roxburgh, Scotland, Teacher, for an invention for—"Improvements in the means of communication between the guard and the engine-driver in a railway-train."<br><i>Provisional protection only.</i>                                                            |
| TAYLOR.<br>23th December 1853.              | 3004. JAMES TAYLOR, of the firm of James Taylor and Company, of the Britannia Works, Birkenhead, in the County of Chester, Engineers, for an invention for—"Certain improvements in raising and lowering weights."<br><i>Letters Patent sealed.</i>                                                          |
| COATES.<br>23th December 1853.              | 3005. WILLIAM UNETT COATES, of Ombersley, in the County of Worcester, Clerk, for an invention for—"A new or improved rotary steam-engine."<br><i>Provisional protection only.</i>                                                                                                                            |
| ALEXIS.<br>23th December 1853.              | 3006. JOSEPH ALEXIS, of Avignon, in the Empire of France, for an invention for—"An improved railway-brake."<br><i>Provisional protection only.</i>                                                                                                                                                           |
| GREEN.<br>23th December 1853.               | 3007. RICHARD GREEN, of the firm of Davis, Greathead, and Green, of the Flint Glass-works, Brettel Lane, in the County of Stafford, for an invention for—"Improvements in insulators for insulating the wires or rods employed for conducting or transmitting electricity."<br><i>Letters Patent sealed.</i> |
| MACINTOSH.<br>23th December 1853.           | 3008. JOHN MACINTOSH, of 12, Pall Mall East, in the County of Middlesex, for an invention for—"An improvement in discharging projectiles."<br><i>Letters Patent sealed.</i>                                                                                                                                  |



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| BARNES.<br>28th December 1853.                | 3009. JOHN BARNES, of Church, in the County of Lancaster, Manufacturing Chemist, for an invention for—"A certain improvement or improvements in dyeing and cleansing cotton, silk, wool, and other fabrics." <i>Letters Patent sealed.</i>                                                                                                                                        |
| PARKER.<br>28th December 1853.                | 3010. FRANCIS PARKER, of Northampton, for an invention for—"An improvement in the manufacture of gaiters." <i>Letters Patent sealed.</i>                                                                                                                                                                                                                                          |
| BARNES.<br>28th December 1853.                | 3011. SAMUEL BARNES, of Oldham, in the County of Lancaster, Machine Maker, for an invention for—"A certain improvement or improvements in the construction of looms." <i>Provisional protection only.</i>                                                                                                                                                                         |
| McNEE.<br>BROADFOOT.<br>28th December 1853.   | 3012. DUNCAN McNEE, Printer, of Hillfield, Kirkintilloch, in the County of Dumbarton, and ALEXANDER BROADFOOT, Merchant, 128, Ingram Street, Glasgow, in the County of Lanarkshire, for an invention for—"Improvements in printing with colours on cloth, which are also applicable to printing ornamental designs on paper or other surfaces." <i>Letters Patent sealed.</i>     |
| PHILLIPS.<br>PHILLIPS.<br>28th December 1853. | 3013. THOMAS PHILLIPS, junr, of Sparkbrook, in the County of Warwick, Gentleman, and SAMUEL PHILLIPS, of Birmingham, in the same County, Gun Manufacturer, for an invention for—"Improvements in the construction of window-shutters, which improvements are also applicable as an additional security for doors and other similar openings." <i>Provisional protection only.</i> |
| JACKSON.<br>29th December 1853.               | 3014. HENRY JACKSON, of High Street, Poplar, in the County of Middlesex, for an invention for—"Improvements in machinery for moulding bricks and other articles of brick-earth." <i>Letters Patent sealed.</i>                                                                                                                                                                    |
| ESTIVANT.<br>29th December 1853.              | 3015. EDWARD ESTIVANT, of Givet, France, for an invention for—"Improvements in the manufacture of tubes of copper and its alloys." <i>Provisional protection only.</i>                                                                                                                                                                                                            |
| PHILLIPS.<br>29th December 1853.              | 3016. MARY PHILLIPS, of Birmingham, in the County of Warwick, Widow, for an invention for—"An improvement or improvements in metallic revolving or winding shutters."— <i>A communication from her late husband.</i> <i>Letters Patent sealed.</i>                                                                                                                                |
| RÉMOND.<br>29th December 1853                 | 3017. AMÉDÉE FRANÇOIS RÉMOND, of Birmingham, in the County of Warwick, Gentleman, for an invention for—"New or improved metallic tubes." <i>Letters Patent sealed.</i>                                                                                                                                                                                                            |
| WHITE.<br>29th December 1853.                 | 3018. JAMES WHITE, of East Street, Red Lion Square, in the County of Middlesex, Engineer, for an invention for—"Improvements in friction-joints or fastenings." <i>Letters Patent sealed.</i>                                                                                                                                                                                     |
| CROSSLEY.<br>29th December 1853.              | 3019. JAMES WILLIAM CROSSLEY, of Brighouse, in the Parish of Halifax, in the County of York, Dyer and Stuff-finisher, for an invention for—"Improvements in the production of surface-finish to certain descriptions of fabrics composed of worsted, cotton, or silk, or combinations thereof." <i>Letters Patent sealed.</i>                                                     |
| ROUX.<br>29th December 1853.                  | 3020. CLAUDE ALPHONSE ROUX, of Belleville, near Paris, in the Empire of France, and of 16, Castle Street, Holborn, City, London, for an invention for—"Improvements in printing warps of cut-pile and similar fabrics." <i>Letters Patent sealed.</i>                                                                                                                             |
| VION.<br>29th December 1853.                  | 3021. HYPOLITE CHARLES VION, of Paris, in the Empire of France, and of 16, Castle Street, Holborn (City), London, for an invention for—"Improvements in pistons and stuffing-boxes of engines moved by water, steam, or gas." <i>Provisional protection only.</i>                                                                                                                 |
| NEWTON.<br>29th December 1853.                | 3022. ALFRED VINCENT NEWTON, of the Office for Patents, 66, Chancery Lane, in the County of Middlesex, Mechanical Draughtsman, for an invention for—"Improvements in the manufacture of screws."— <i>A communication.</i> <i>Letters Patent sealed.</i>                                                                                                                           |
| PICKSTONE.<br>30th December 1853.             | 3023. WILLIAM PICKSTONE, of Radcliffe, in the County of Lancaster, Manufacturer, and JOHN BOOTH, of Pilkington, in the County of Lancaster, Manager, for an invention for—"Improvements in looms for weaving." <i>Letters Patent sealed.</i>                                                                                                                                      |
| LORD.<br>30th December 1853.                  | 3024. JAMES LORD, of Farnworth, in the County of Lancaster, Manager, for an invention for—"Improvements in manufacturing, ornamenting, and applying fabrics for articles of clothing, and in the application of certain fabrics to such purposes, and in producing shapes for articles of clothing." <i>Provisional protection NOT granted.</i>                                   |



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| SWIRE.<br>30th December 1853.                    | 3025. BENJAMIN SWIRE, of Ashton-under-Lyne, in the County of Lancaster, Nail Manufacturer, for an invention for—"Improvements in machinery or apparatus for making metal tips for shoes and clogs."<br><i>Provisional protection only.</i>                                                                    |
| DE RUOLZ.<br>DE FONTENAY.<br>30th December 1853. | 3026. HENRI CATHERINE CAMILLE DE RUOLZ, and ANSELME DE FONTENAY, both of Paris, in the Empire of France, Civil Engineers, for an invention for—"An improved metallic alloy."<br><i>Letters Patent sealed.</i>                                                                                                 |
| MARLOR.<br>30th December 1853.                   | 3027. JOSEPH MARLOR, of Oldham, in the County of Lancaster, Coal Agent, for an invention for—"Certain improvements in ascending and descending mines and shafts and in the apparatus connected therewith, by which said improvements the ventilation of mines is increased."<br><i>Letters Patent sealed.</i> |
| MABON.<br>30th December 1853.                    | 3028. WALTER MABON, of Ardwick Iron Works, in the City of Manchester, & County of Lancaster, Engineer, for an invention for—"Improvements in machines used for rivetting together metallic plates."<br><i>Letters Patent sealed.</i>                                                                          |
| HOLROYD.<br>31st December 1853.                  | 3029. ISAAC HOLROYD, of Sowerby Bridge, in the County of York, Engine Tenter, for an invention for—"Improvements in apparatus employed in singeing textile fabrics."<br><i>Provisional protection only.</i>                                                                                                   |
| MILNER.<br>31st December 1853.                   | 3030. JOHN MILNER, of Stratford, in the County of Essex, Engineer, for an invention for—"Improvements in connecting the rails of railways."<br><i>Letters Patent sealed.</i>                                                                                                                                  |
| PHYSICK.<br>31st December 1853.                  | 3031. HENRY VERNON PHYSICK, of 38, North Bank, Regent's Park, for an invention for—"Improvements in electric telegraphs and apparatus connected therewith."<br><i>Letters Patent sealed.</i>                                                                                                                  |
| SCHÖNHERR.<br>31st December 1853.                | 3032. CHRETIEN GUILLAUME SCHÖNHERR, of Chemnitz, in the Kingdom of Saxony, Mechanical Engineer, for an invention for—"Improvements in bobbin machines."<br><i>Complete specification: Letters Patent sealed.</i>                                                                                              |
| PYM.<br>31st December 1853.                      | 3033. JOHN PYM, of Pimlico, in the County of Middlesex, Gentleman, for an invention for—"Improvements in machinery for grinding auriferous and other ores, and separating the metal therefrom."<br><i>Letters Patent sealed.</i>                                                                              |
| TUXFORD.<br>31st December 1853.                  | 3034. WESTON TUXFORD, of Boston, in the County of Lincoln, for an invention for—"Improvements in portable thrashing machines, part of which improvements is also applicable to fixed thrashing machines."<br><i>Letters Patent sealed.</i>                                                                    |
| TRUEMAN.<br>BAGGS.<br>31st December 1853.        | 3035. ALFRED TRUEMAN, of Swansea, and ISHAM BAGGS, of London, for an invention for—"Improvements in grinding, amalgamating, and washing quartz and other matters containing gold."<br><i>Letters Patent sealed.</i>                                                                                           |
| WAYGOOD.<br>31st December 1853.                  | 3036. RICHARD WAYGOOD, of Newington Causeway, in the County of Surrey, Ironfounder, for an invention for—"Improvements in portable forges."<br><i>Letters Patent sealed; no specification filed.</i>                                                                                                          |
| HOLBREY.<br>31st December 1853.                  | 3037. JOSEPH HOLBREY, of Bradford, in the County of York, Wool Sorter, for an invention for—"Improved machinery for combing wool and other fibrous materials."<br><i>Letters Patent sealed.</i>                                                                                                               |
| SLATER.<br>31st December 1853.                   | 3038. JAMES SLATER, of Salford, in the County of Lancaster, Mechanic, for an invention for—"Certain improvements in cocks, taps, or valves."<br><i>Letters Patent sealed.</i>                                                                                                                                 |
| BERNARD.<br>31st December 1853.                  | 3039. JULIAN BERNARD, of 15, Regent Street, in the County of Middlesex, Gentleman, for an invention for—"Improvements in stitching and ornamenting various materials and in machinery and apparatus connected therewith."<br><i>Letters Patent sealed.</i>                                                    |
| BROWN.<br>MACGREGOR.<br>31st December 1853.      | 3040. THOMAS BROWN, of Manchester, in the County of Lancaster, Manufacturer, and PETER MACGREGOR, of the same place, Manager, for an invention for—"Certain improvements in power-looms for weaving."<br><i>Provisional protection only.</i>                                                                  |
| OPPENHEIMER.<br>31st December 1853.              | 3041. ADOLPHUS OPPENHEIMER, of Manchester, in the County of Lancaster, Manufacturer, for an invention for—"Certain improvements in the manufacture of silk velvet and other such piled goods or fabrics."<br><i>Letters Patent sealed.</i>                                                                    |
| HUNT.<br>31st December 1853.                     | 3042. BENJAMIN HUNT, of Brighton, in the County of Sussex, Upholsterer, for an invention for—"Improvements in obtaining and applying motive-power."<br><i>Provisional protection only.</i>                                                                                                                    |



SONNTAG.  
31st December 1853.

3043. PIERRE SONNTAG, of Paris, France, and of No. 4, South Street, Finsbury, London, Tailor, for an invention for—" An improved apparatus for measuring and fitting garments of persons."  
*Provisional protection only.*

CLERVILLE.  
31st December 1853.

3044. FRANÇOIS ARISTIDE CLERVILLE, of Paris, France, and of No. 4, South Street, Finsbury, London, Captain d'Etat Major, for an invention for—" An improvement in the construction of fire-arms."  
*Letters Patent sealed.*

SOREL.  
31st December 1853.

3045. STANISLAS TRANQUILE MODESTE SOREL, of Paris, France, and of No. 4, South Street, Finsbury, London, Civil Engineer, for an invention for—" Certain improved compositions to be employed as substitutes for caoutchouc, gutta-percha, and certain fatty bodies."  
*Letters Patent sealed.*

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